AUDIO VIDEO SURROUND RECEIVER

KRF-V7771D/VR-2080
KRF-V8881D/VR-2090
SERVICE MANUAL

KENWOOD

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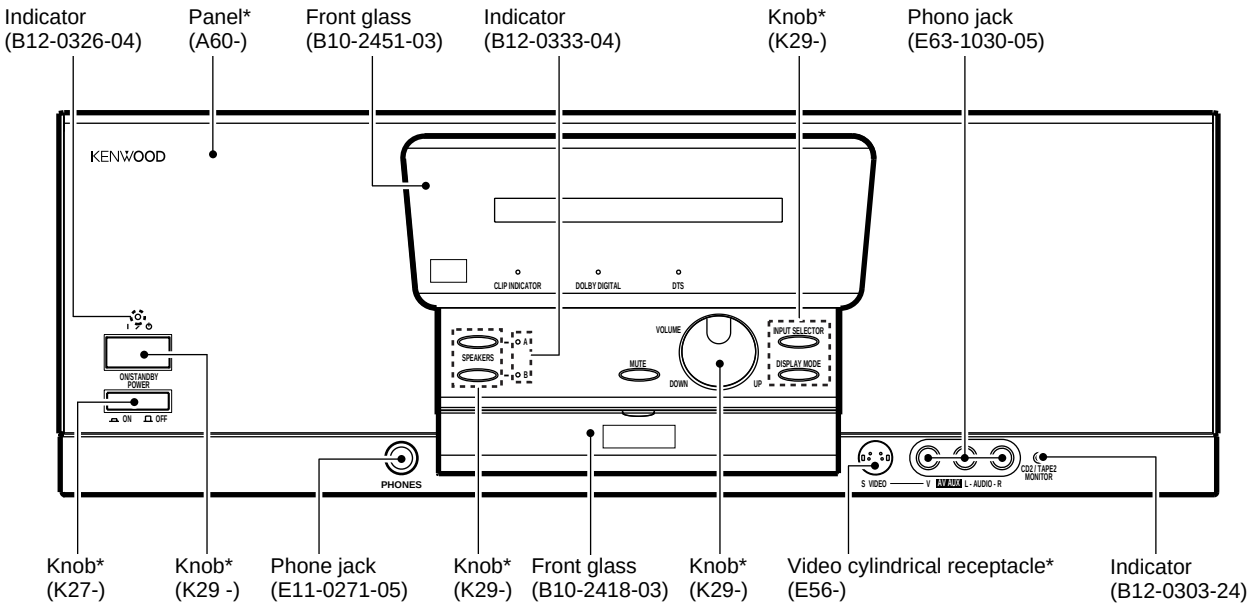
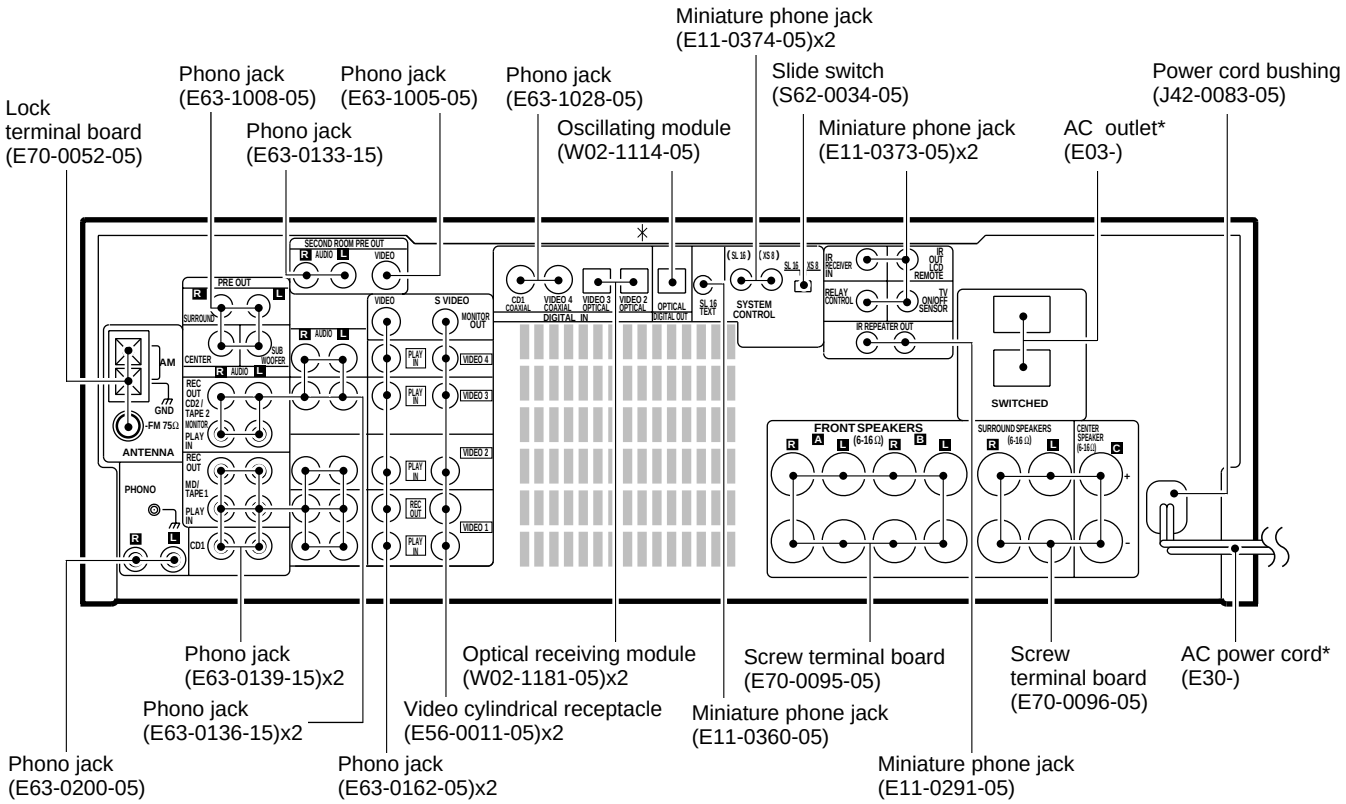




*** Refer to parts list on page 60.**

CONTENTS / ACCESSORIES / CAUTIONS

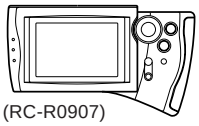
Contents

CONTENTS / ACCESSORIES / CAUTIONS 2
CONTROLS 3
DISASSEMBLY FOR REPAIR 5
BLOCK DIAGRAM 6
CIRCUIT DESCRIPTION 9
ADJUSTMENT 17
WIRING DIAGRAM 19
PC BOARD 23
SCHEMATIC DIAGRAM 31
EXPLODED VIEW 59
PARTS LIST 60
SPECIFICATIONS 79

Accessories

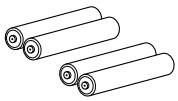
Check that the following accessories are present.

Remote control unit (1)
(A70-1191-05)

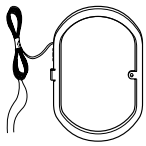


(RC-R0907)
Battery cover(A09-0378-08)

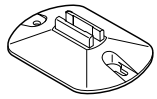
Batteries(R6/AA) (4)



AM loop antenna (1) (T90-0833-05)

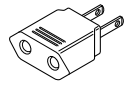


Loop antenna stand (1)
(J19-3645-05)



FM indoor antenna (1)
(T90-0835-05)

* AC plug adaptor (1)
(E03-0115-05)



* Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

Cautions

How to reset the microcomputer

The microcomputer may malfunction (impossibility of operation, erroneous display, etc.) when the power cord is unplugged and plugged in again while the unit is in ON mode with the I/⏻ key pressed or due to other external causes. In this case, execute the procedure on the right to reset the microcomputer and return the unit to the normal condition.

- Resetting the microcomputer clears the memory you entered and returns it to the initial condition when the unit left the factory.

U.S.A. and Canada

❶ Unplug the power cord from the wall outlet.
❷ While holding the I/⏻ (ON/STANDBY) key depressed, plug the power cord into the wall outlet again.

Expect for U.S.A. and Canada

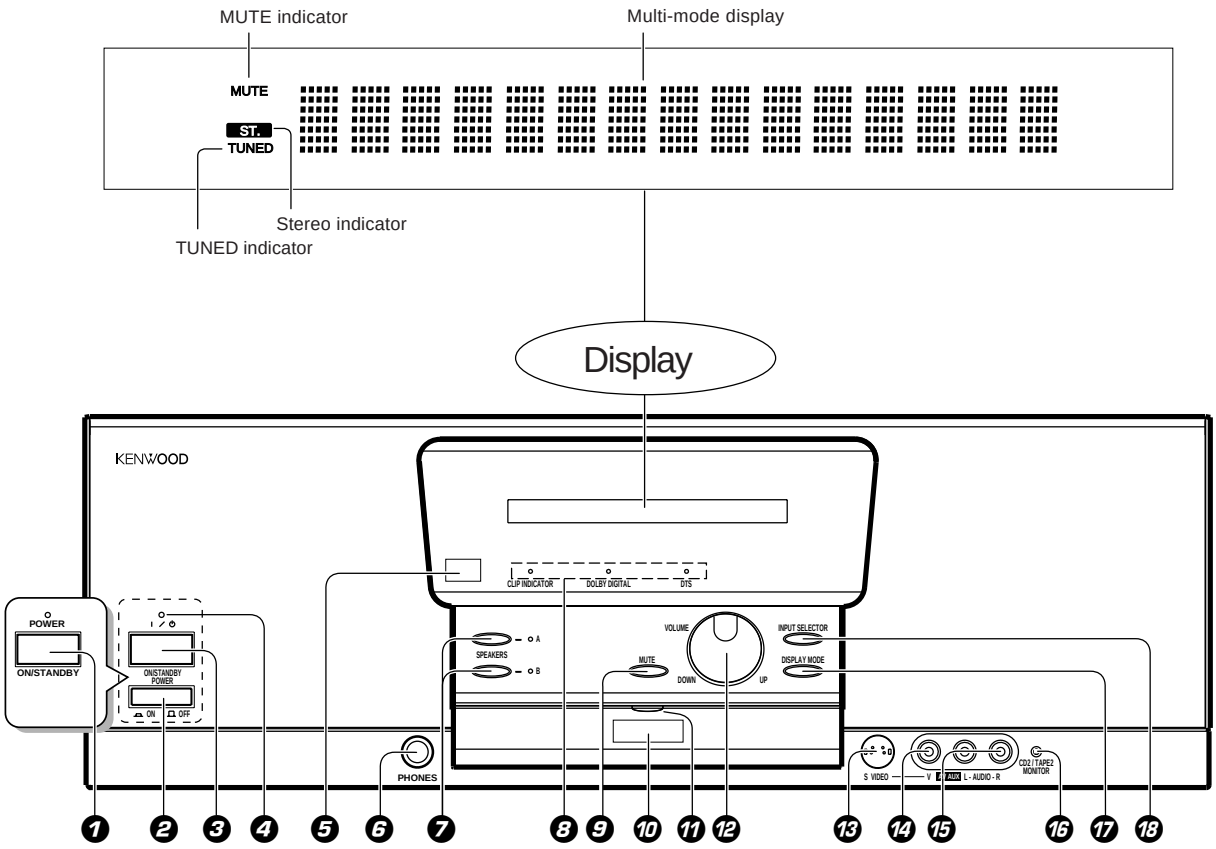
❶ With the power cord plugged in, turn the POWER key OFF.
❷ Whill holding down the ON/STANDBY key, press POWER key.

Memory backup function

Please note that the following items will be deleted from this unit's memory if the power cord is disconnected from the AC outlet for approximately three days.

- The input selection is cleared and the **"Tuner"** input is selected.
- The volume setting is cleared and the volume is set to **"-66 dB"**.
- The receiving band setting is cleared and the **"FM"** band is selected.
- The frequency setting is cleared and 87.5 MHz is selected.
- The preset station memory is cleared.
- The surround setting is cleared and reset to the initial condition.

CONTROLS



❶ POWER key
(U.S.A., U.S.Military and Canada)
Press to switch power ON and OFF.

❷ POWER key
(Except for U.S.A., U.S.Military and Canada)
(China : ⏻ **POWER**)
Press to switch the main power ON and OFF.

❸ ON/STANDBY key
(Except for U.S.A., U.S.Military and Canada)
Press to switch the power mode between STANDBY and ON.

❹ STANDBY indicator
Lights in STANDBY mode.

❺ RC sensor
Receives signals transmitted from the remote control unit.

❻ PHONES jack
Use for listening audio through headphones.

❼ SPEAKERS keys
Press each key to switch the SPEAKERS A or SPEAKERS B ON and OFF.

❽ Indicators
CLIP INDICATOR :
Lights when the input is clipped during analog to digital signal conversion.
DOLBY DIGITAL :
Lights when Dolby Digital is activated.

DTS :
Lights when the DTS is activated.

❾ MUTE key
Press to mute the audio temporarily.

❿ RC transmitter
Sends signals to the remote control unit.

⓫ Indicator
Lights when signal is input from or output to the remote control unit.

⓬ VOLUME control knob
Rotate to adjust the volume.

⓭ S VIDEO input jack
(Except for the VR-2080 or the KRF-V7771D for the U.S. Military destination)
Connect the S VIDEO output jack of an AV component.

⓮ VIDEO input jack
Connect the composite video output (RCA) jack of an AV component.

⓯ AUDIO (L, R) input jacks
Connect the audio output (RCA) jacks of an AV component.

⓰ CD2/TAPE2 MONITOR indicator
Lights when the CD2/Tape2 (Monitor) input is used.

⓱ DISPLAY MODE key
Press to switch the display on the main unit.

⓲ INPUT SELECTOR key
Press to switch the input as shown below.
TUNER
CD1
MD/Tape1
VIDEO1
VIDEO2
VIDEO3
VIDEO4
AV AUX
PHONO

STANDBY indication

While standby indicator is indicated, a small amount of power is supplied to the system to back up the memory. In this mode, the system can be turned ON by remote control.

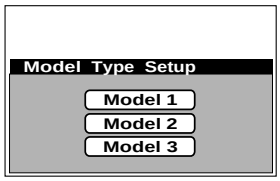
CONTROLS

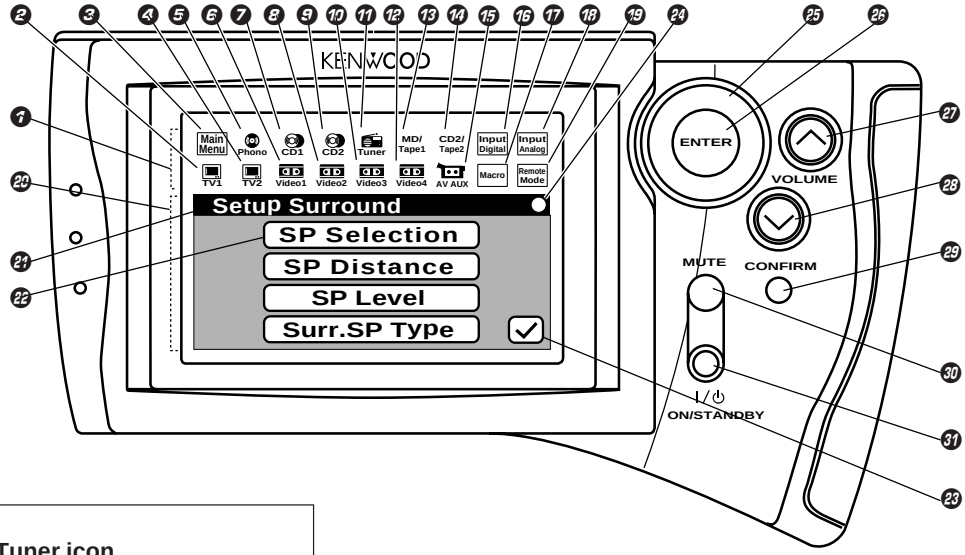
Controls and indicators

The Remote Control unit provided with the Receiver can also control KENWOOD MD recorder, cassette decks, CD player, DVD player and LD player which are connected to it through system control cords. For details of the controllable functions, refer to the instruction manuals of these components.

RC : Infrared system

Perform "Model Type Setup" of the RC before using it.
The following menu display appears after the batteries are loaded for the first time.





The displayed icons are variable depending of the **"Model Type Setup"** for matching specifications with the Reciever which uses the RC unit and **"Setup"** for matching specifications with connected source component.

Segment screen

❶ Segment screen
The fixed icons are displayed in this area.
❷ TV1 icon
Select to display the TV1 control screen.
❸ Main Menu icon
Select to display the Main Menu screen.
❹ TV2 icon
Select to display the TV2 control screen.
❺ Phono icon
Select to select the PHONO input.
❻ Video1 icon
Select to control Video1.
❼ CD1 icon
Select to control CD1.
❽ Video2 icon
Select to control Video2.
❾ CD2 icon
Select to control CD2. (Room B only)
❿ Video3 icon
Select to control Video3.
⓫ Tuner icon
Select to control Tuner.
⓬ Video4icon
Select to control Video4.
⓭ MD/Tape1 icon
Select to control MD or Tape1.
⓮ CD2/Tape2 icon
Select to monitor the CD2/Tape2 input. (Room A only)
⓯ AV AUX icon
Select to select the AV AUX input.
⓰ Input Digital icon
Select to play a digital input or to switch between Auto and Manual.
⓱ Macro icon
Select to control Macro.
⓲ Input Analog icon
Select to play an analog input.
⓳ Remote Mode icon
Select to switch the remote control operation mode without changing the selected input.

Menu screen

⓴ Menu screen
Control key icons and control levels are displayed in this area.
㉑ Status display
The example in the illustration shows the **"Setup Surround"** status.
㉒ SP Selection icon
Select to set up the speakers.
㉓ Return icon
Select to return to the previous menu screen.
㉔ Status display
Shows the communication status.

Operation keys

㉕ Joy stick key
This key is used to select an icon. This key can be controlled in 4 directions.
㉖ ENTER key
Press to enter the selection of an icon.
㉗ VOLUME (up) control key
Press to increase the volume.
㉘ VOLUME (down) control key
Press to decrease the volume.
㉙ CONFIRM key
Press to select the currently displayed items.
㉚ MUTE key
Press to mute the audio temporarily.
㉛ I/⏻ (ON/STANDBY) key
Press to turn this unit and the components connected to it through system cords between ON and STANDBY modes.

DISASSEMBLY FOR REPAIR

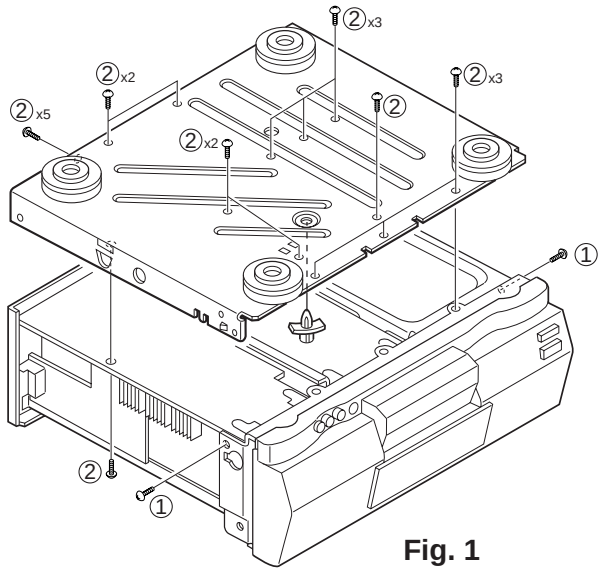


Fig. 1

[Remove the bottom plate.]

Make use of the changing final transistor etc.

1. Remove the 19 screws (①, ②) and PCB support, then remove the bottom plate.

[Check the vertical PCB]

1. (Exist bottom plate) Remove the hook of rear panel(①).
2. Remove the 29(Exist bottom plate: 34) screws(②), then remove the rear panel.
3. Connect the GND of the phono terminal, the GND of antenna shield board,the GND of coax., the GND of system control shield board, the GND of SP terminal shield board and the chassis with 5 wires connected alligator chips(③).

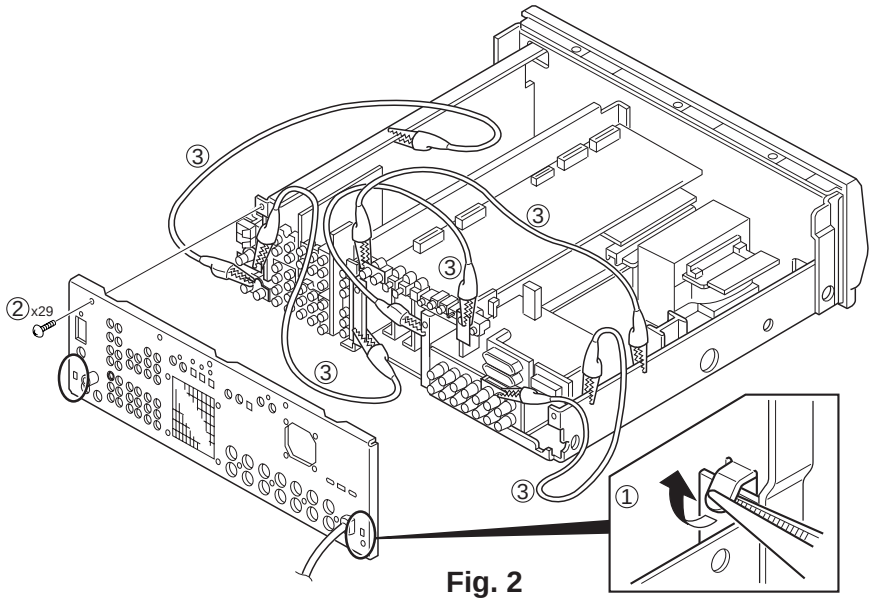


Fig. 2

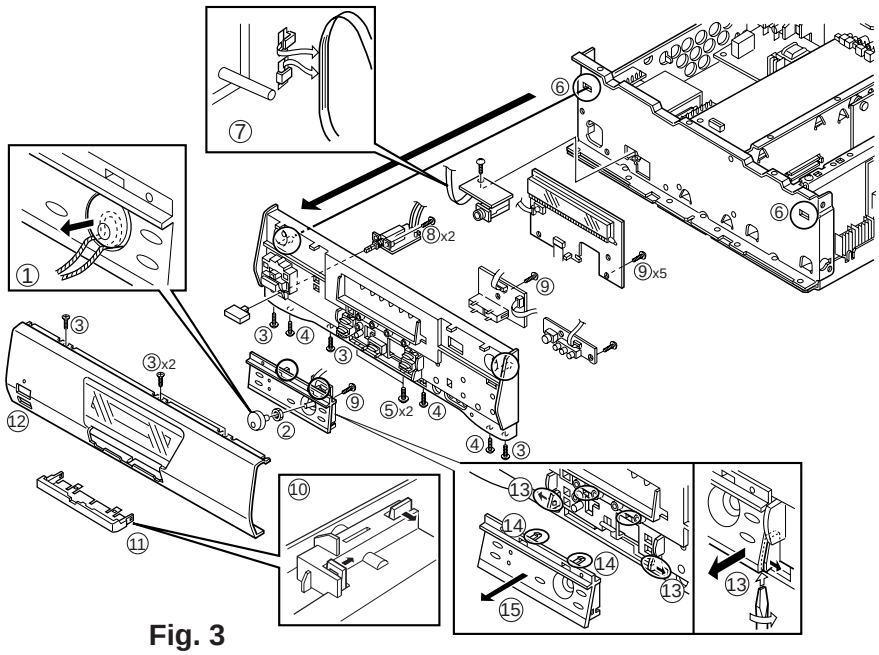


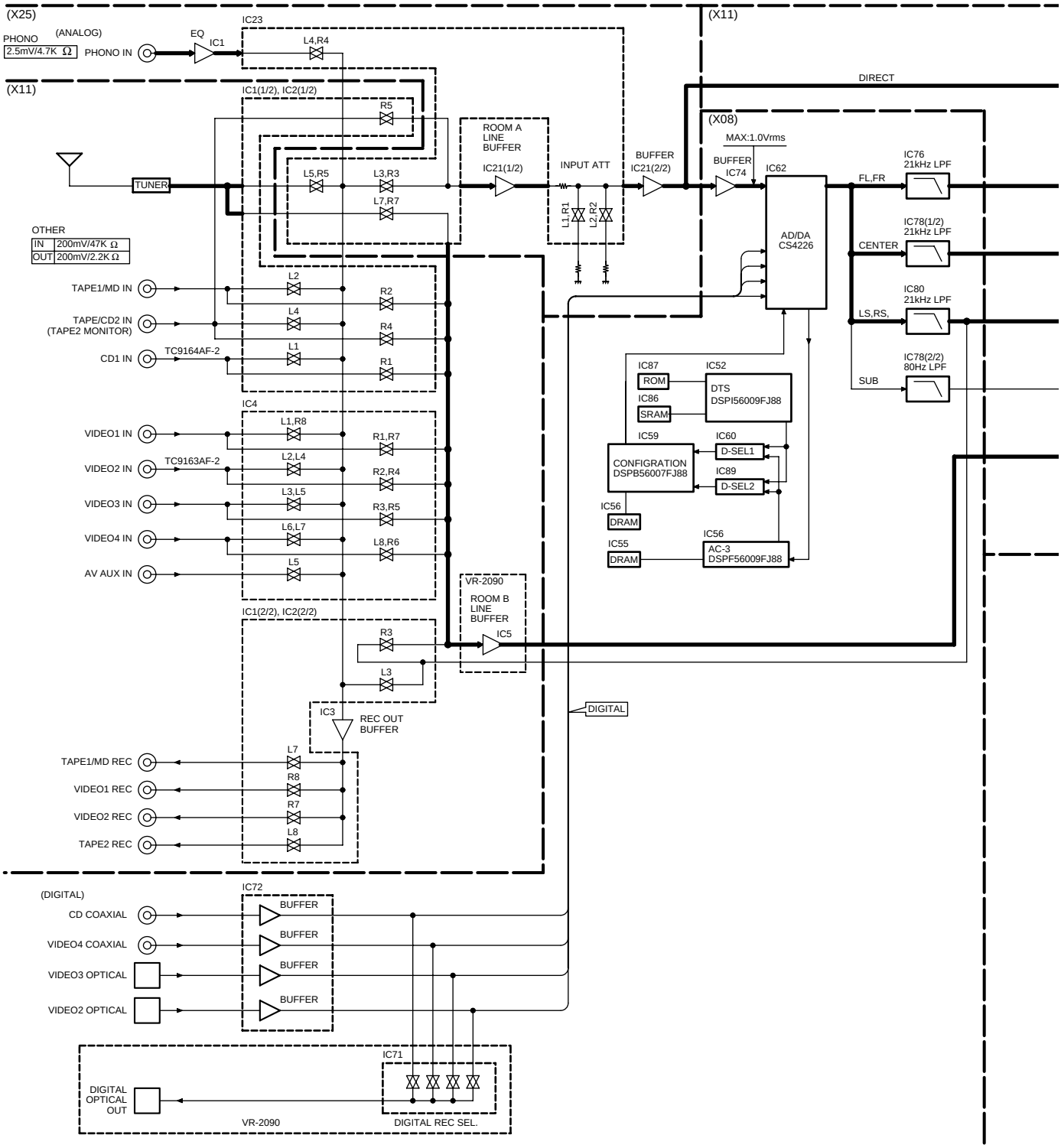
Fig. 3

[Remove the escutcheon (operation panel)]

1. Remove the knob(①), the nut (②), the 11 screws(③, ④, ⑤) and 2 hooks (⑥), then remove the front panel ass'y.
2. Remove the lead wire(⑦), the 2 screws(⑧ : except K,P type) and 7 screws(⑨) then remove the PCB.
3. Remove the under front glass(⑩, ⑪), then remove the front panel(⑫) from the sub panel.
4. Remove the 2 under escutcheon sides(⑬) by ⊖ screw driver and the 2 hooks(⑭) then remove the escutcheon(⑮).

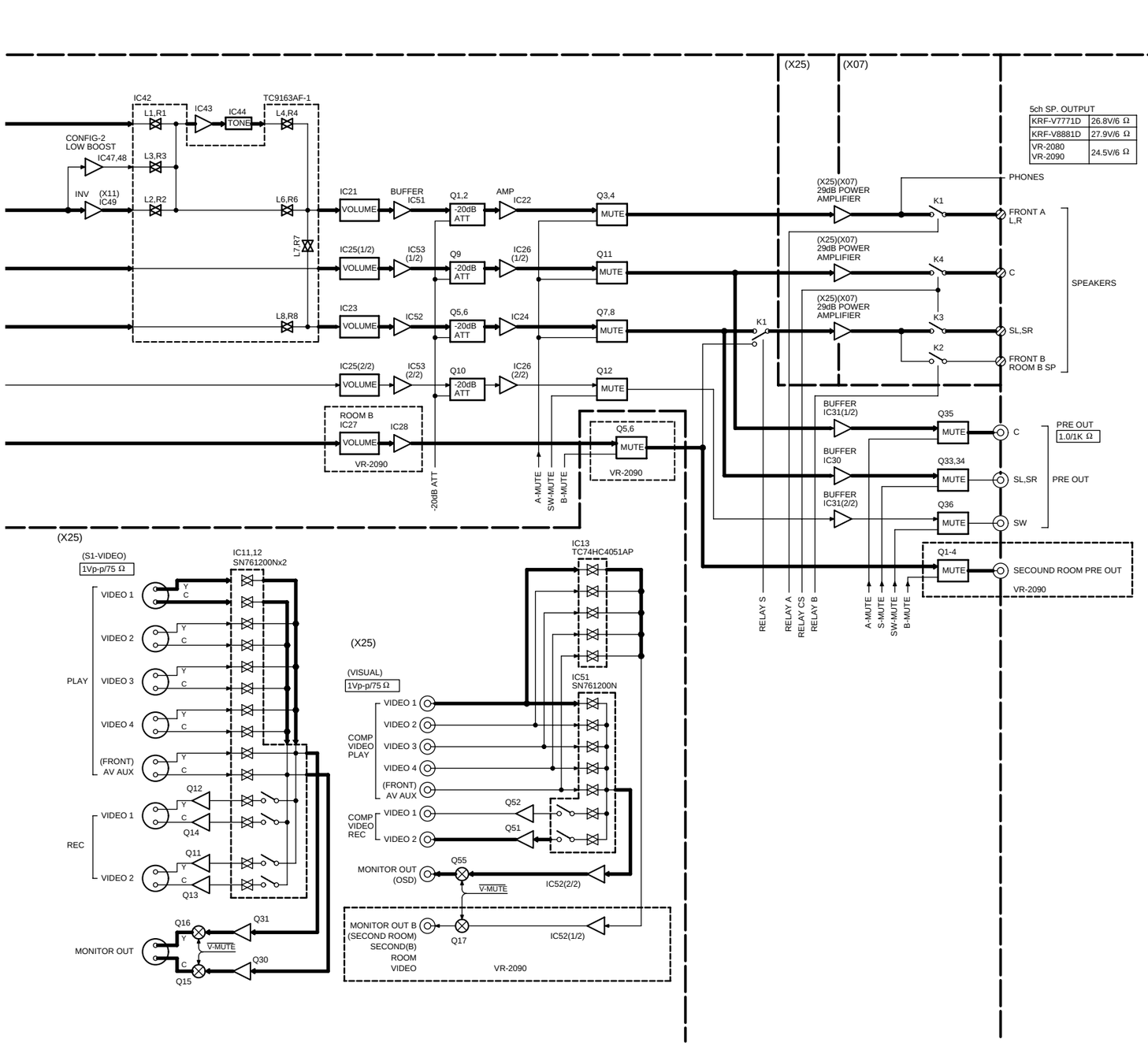
BLOCK DIAGRAM

(SIGNAL STAGE)



KRF-V7771D/V8881D/VR-2080/2090

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. The back up item and initialization condition

1-1 Back up

- POWER ON/OFF : OFF
- VOLUME LEVEL : -66dB
- AUDIO INPUT • SELECTOR : TUNER
- VIDEO INPUT • SELECTOR : VIDEO1
- SPEAKER A : ON
- SPEAKER B : OFF
- CD2/TAPE2 MONITOR : TAPE2 OFF
- TONE : OFF
- LOUDNESS : OFF
- DISPLAY MODE : DEVICE+DGTL/ANLG
- RDS DISPLAY MODE : FREQUENCY
- DIMMER : DIMMER 1 (LIGHTEST)
- SURROUND MODE : STEREO
- DSP MODE : ARENA
- ROOM SIZE : Med
- WALL TYPE : Med
- EFFECT LEVEL : 3
- MIDNIGHT MODE : OFF
- DISTANCE : FL/FR : 10ft
  : C : 10ft
  : RS/LS : 5ft
  : SW : 10ft
- FRONT SP. : LARGE
- CENTER SP. : NORMAL
- SURROUND SP. : NORMAL/WIRED
- SUB WOOFER : ON
- SW Re-Mix : OFF
- INPUT LEVEL : 0dB
- CH. LEVEL : 0dB
- TONE BASS : 0dB
- TONE TREBLE : 0dB
- TUNING MODE : AUTO
- PRESET MEMORY : TEST MEMORY FREQUENCY (Same value with KR-V999D/1090VR)
- LAST BAND : FM
- FM LAST FREQUENCY : 87.5MHz
- AM LAST FREQUENCY : 531kHz (CH. SP 9kHz)
  : 530kHz (CH. SP 10kHz)
- LAST P. ch : [- -ch]
- PTY SELECT MODE : OFF
- PTY SEARCH MODE : OFF
- TP SEARCH MODE : OFF
- RDS DISPLAY MODE : FREQUENCY MODE

1-2 The initial setting

While pressing POWER key, plug the AC power cord into an AC outlet (K,P type) or turn on the AC POWER switch.

2. Condition by the destination or model

(0 : Pull down, 1 : Pull up)

TYPE	BAND	Reception frequency	Channel space	IF	PLL standard frequency	Diode sw			
						⑦⑦ DSW3	⑦⑥ DSW2	⑦⑤ DSW1	⑦④ DSW0
K1 1700	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0	0
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz				
K2 1610	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0	1
	AM	530kHz~1610kHz	10kHz	+450kHz	10kHz				
K4 1700 RBDS	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	1	0	1	0
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz				
E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	0	1	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
E3 RDS	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	1	0	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
Q1 RDS	FM L	65.0MHz~74.0MHz	10kHz	+10.7MHz	5kHz	1	0	1	1
	FM H	87.5MHz~108.0MHz	50kHz	+10.7MHz	5kHz				
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
M	K2/E1 is switched with only the setting of DSW1 (X11 : S601). (DSW1 = 0 : K2 type, 1 : E1 type)					0	0	X	1

3. TEST MODE

[setting method]

While pressing INPUT SELECTOR key, plug the AC power cord into an AC outlet (K, P type) or turn on the AC POWER switch. When a set is set up in test mode condition a set becomes the following condition.

Automatic POWER ON. All indicator tube (FL) and CLIP INDICATOR LED are lighted. The other LED are flashed.

A backup at the thing except ON/OFF of POWER is initialized.

[cancel method]

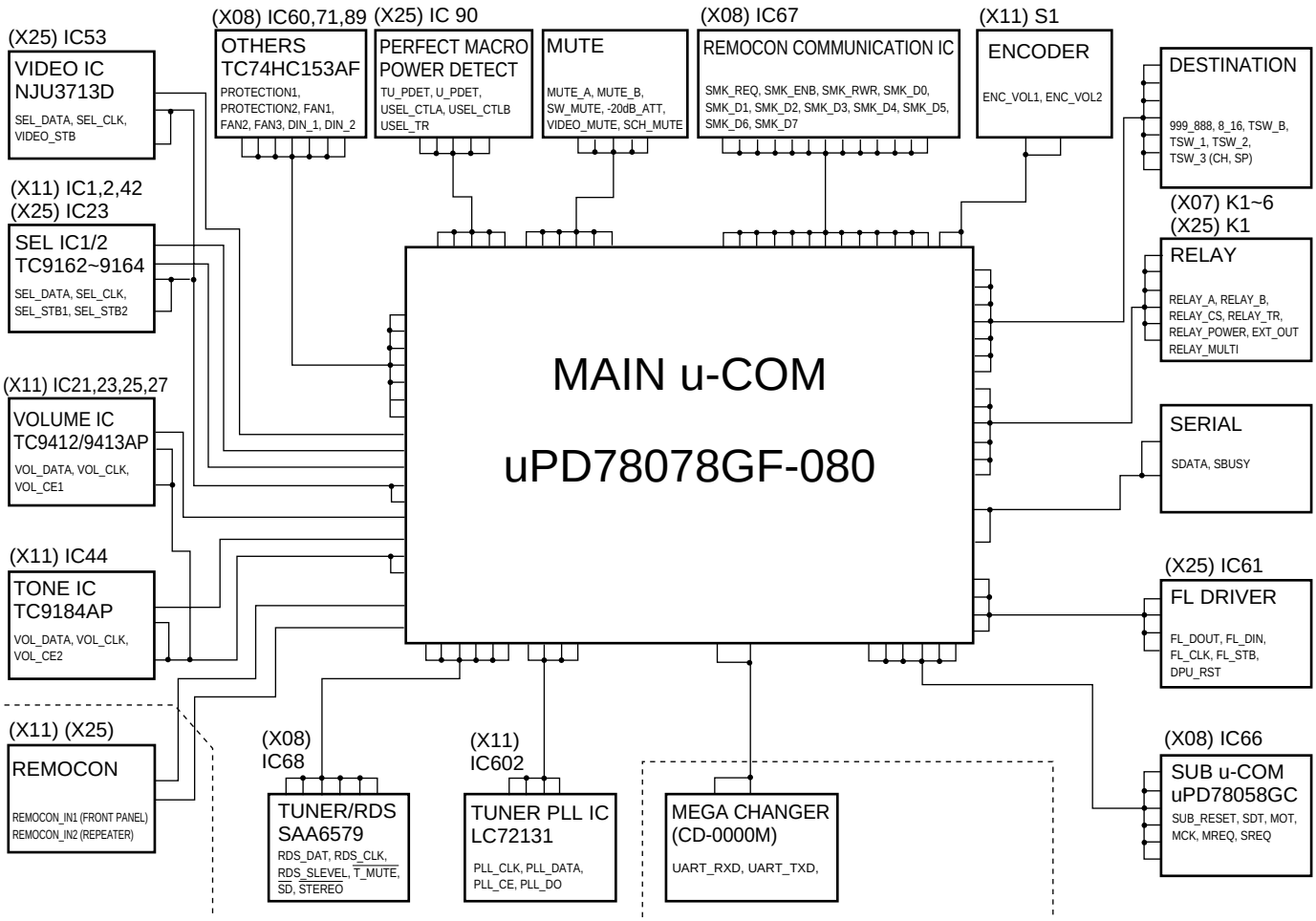
The power supply is turned off.

CIRCUIT DESCRIPTION

Push key	INPUT SELECTOR		SP A	SP B	MUTE	DISPLAY MODE	
DISPLAY	TUNER	STEREO	P. CALL ↑ UP	P. CALL ↓ DOWN	ATT → OFF → ON → FM	AUTO/STEREO ↔ MANUAL/MONO (DOLBY DIGITAL LED : OFF ↔ ON)	(Press the key for 2 secs) ANALOG → DIGITAL IR RECEIVER A(ON) → OFF
	CD1	STEREO				TONE (TUNED) +10 (light on) ↔ OFF (light off)	
	MD/TAPE1	STEREO					
	VIDEO1	PRO LOGIC					
	VIDEO2	3 STEREO					
	VIDEO3	STEREO					
	VIDEO4	DSP				ARENA → JAZZ CLUB ↑ ↓ THEATER STADIUM ↑ CATHEDRAL ←	
	AV AUX	STEREO				TAPE2 OFF ↔ ON	
	PHONO	STEREO				INPUT LEVEL → 0dB → -3dB → -6dB	

4. Main microprocessor uPD78078GF-080 (X08 : IC69)

4-1 Microprocessor periphery block diagram



CIRCUIT DESCRIPTION

4-2 Pin description

Pin No.	Pin Name	I/O	Connect	Description
1	VOL_STB	O	PD	VOLUME IC $\overline{CE}$ (TC9412AP/TC9413AP)
2	VOL_CLK	O	PD	VOLUME IC CLOCK (TC9412AP/TC9413AP) TONE IC CLOCK (TC9184AP)
3	VOL_DATA	O	PD	VOLUME IC DATA (TC9412AP/TC9413AP) TONE IC DATA (TC9184AP)
4	SEL_STB1	O	PD	ANALOG SW. STROBE (NJU731x)
5	SEL_STB2	O	PD	ANALOG SW. STROBE (NJU7311-NJU7313)
6	VIDEO_STB	O	PD	VIDEO IC STROBE (NJU3713)
7	SEL_CLK	O	PD	ANALOG SW. CLOCK (NJU7311-NJU7313) VIDEO IC CLOCK (NJU3713D)
8	SEL_DATA	O	PD	ANALOG SW. DATA (NJU7311-NJU7313) VIDEO IC DATA (NJU3713D)
9	–	–	PD	NO USED
10, 11	X2, 1	–	–	MAIN CLOCK 4.19MHz (CERAMICS)
12	Vdd	–	+5V	+5V
13, 14	XT2, 1	–	OPEN	NO USED
15	$\overline{RESET}$	I	VDD	uCOM RESET
16	REMOCON_IN1	I	–	FRONT PANEL REMOCON
17	REMOCON_IN2	I	–	EXTERNAL REMOCON
18	RDS_DATA	I	PD	RDS DATA (SAA6579)
19	RDS_CLK	I	PD	RDS CLOCK (SAA6579)
20, 21	NC	I	PD	NO USED
22	$\overline{CE}$	I	–	BACK UP CE
23	AVdd	–	$V\overline{DD}$	+5V
24	AVrefo	I	$V\overline{DD}$	A/D POWER SUPPLY
25	RDS_SLEVEL	I	PD	RDS SLEVEL (SAA6579)
26	$\overline{T_MUTE}$	O	PD	TUNER MUTE
27	PLL_CLK	O	PD	PLL IC CLOCK (LC73131)
28	PLL_DATA	O	PD	PLL IC DATA (LC72131)
29	PLL_CE	O	PD	PLL IC CE (LC72131)
30	$\overline{SD}$	I	PU	SD INPUT
31	$\overline{STEREO}$	I	PU	STEREO INPUT
32	PLL_DO	I	PD	PLL IC LC72131 DO (LC72131)
33	AVss	–	$V\overline{SS}$	GND
34	SUB_RESET	O	PD	SUB uCOM RESET (uPD78058GC-A74)
35	V_PDET	I	PU	PERFECT MACRO VIDEO POWER DETECT
36	AVref1	I	$V\overline{DD}$	+5V
37	UART_RXD	I	PD	MEGA CHANGER CD DATA RECEIVE POWER LINE REMOCON CODE RECEIVE
38	UART_TXD	O	PD	MEGA CHANGER CD DATA TRANSMIT POWER LINE REMOCON CODE TRANSMIT
39	VSEL_TR	O	PD	PERFECT MACRO VIDEO SELECTOR POWER SUPPLY SW. Tr
40	Vss	–	GND	GND
41	SDT	I	PD	uCOM-uCOM COMMUNICATION SLAVE DATA (uPD78058GC-A74)
42	MDT	O	PD	uCOM-uCOM COMMUNICATION MASTER DATA (uPD78058GC-A74)
43	MCK	O	PD	uCOM-uCOM COMMUNICATION MASTER CLOCK (uPD78058GC-A74)
44	MREQ	O	PD	uCOM-uCOM COMMUNICATION MASTER REQUEST (uPD78058GC-A74)

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Connect	Description
45	SREQ	I	PD	uCOM-uCOM COMMUNICATION SLAVE REQUEST (uPD78058GC-A74)
46	FL_DOUT	I	PD	FL DRIVER DATA IN
47	FL_DIN	O	PD	FL DRIVER DATA OUT
48	FL_CLK	O	PD	FL DRIVER CLOCK
49	FL_STB	O	PD	FL DRIVER STROBE
50	VSEL_CTLA	O	PD	PERFECT MACRO VIDEO SELECTOR CONTROL A
51	VSEL_CTLB	O	PD	PERFECT MACRO VIDEO SELECTOR CONTROL B
52	FAN_1	I	PD	FAN DETECT 1
53	FAN_2	I	PD	FAN DETECT 2
54	FAN_3	I	PD	FAN DETECT 3
55	SDATA	I/O	–	SERIAL DATA
56	SBUSY	I/O	–	SERIAL BUSY
57	RELAY_A	O	PD	SPEAKER A RELAY
58	RELAY_B	O	PD	SPEAKER B RELAY
59	RELAY_CS	O	PD	CENTER/SURROUND SPEAKER RELAY
60	RELAY_TR	O	PD	TRANS RELAY
61	RELAY_POWER	O	PD	POWER RELAY
62	EXT_OUT	O	PD	EXTERNAL OUT
63	NC	O	PD	NO USED
64	DRV_RST	O	PD	FL DRIVER RESET
65	TV_PDET	I	PD	PERFECT MACRO TV POWER DETECT
66	999_888	I	–	TYPE SELECT H : VR-2090 L : VR-2080
67	8_16	I	–	SERIAL SELECT L : SERIAL 16bit H : SERIAL 8bit
68, 69	ENC_VOL2, 1	I	PD	VOLUME ENCODER IN
70	PROTECTION1	I	PD	PROTECT DETECT
71	Vss	–	GND	GND
72	PROTECTION2	I	PD	PROTECT DETECT
73	NC	I	PD	NO USED
74~76	TSW_0~2	I	–	TUNER SIMUKE SWITCH 0~2
77	TSW_3 (CH. SP)	I	PD	TUNER SIMUKE SWITCH 3 (CHANNEL SPACE)
78	NC	I	–	NO USED
79	RELAY_MULTI	O	PD	SP B SIGNAL OUTPUT ROOM A : L ROOM B : H
80, 81	DIN_1, 2	O	PD	DIGITAL REC SELECT (TC74HC153AF)
82	DIN_STB	O	PD	DIGITAL REC SELECT STROBE (TC74HC153AF)
83	SMK_REQ	O	PD	REMOCON DATA TRANSMIT IC REQ
84	SMK_ENB	I	PD	REMOCON DATA TRANSMIT IC ENB
85	SMK_RWR	I	PD	REMOCON DATA TRANSMIT IC RWR
86~93	SMK_D0~D7	O	PD	REMOCON DATA TRANSMIT IC D0~D7
94	MUTE_A	O	PU	ROOM A MUTE
95	MUTE_B	O	PU	ROOM B MUTE
96	SW_MUTE	O	PU	SWch MUTE
97	-20dB_ATT	O	PU	-20dB ATTENUATER
98	VIDEO_MUTE	O	PD	VIDEO MUTE
99	SCH_MUTE	O	PD	Sch MUTE
100	TONE_STB	O	PD	TONE IC $\overline{CE}$ (TC9184AP)

5. AUDIO INPUT SELECTOR CONTROL

ROOM B

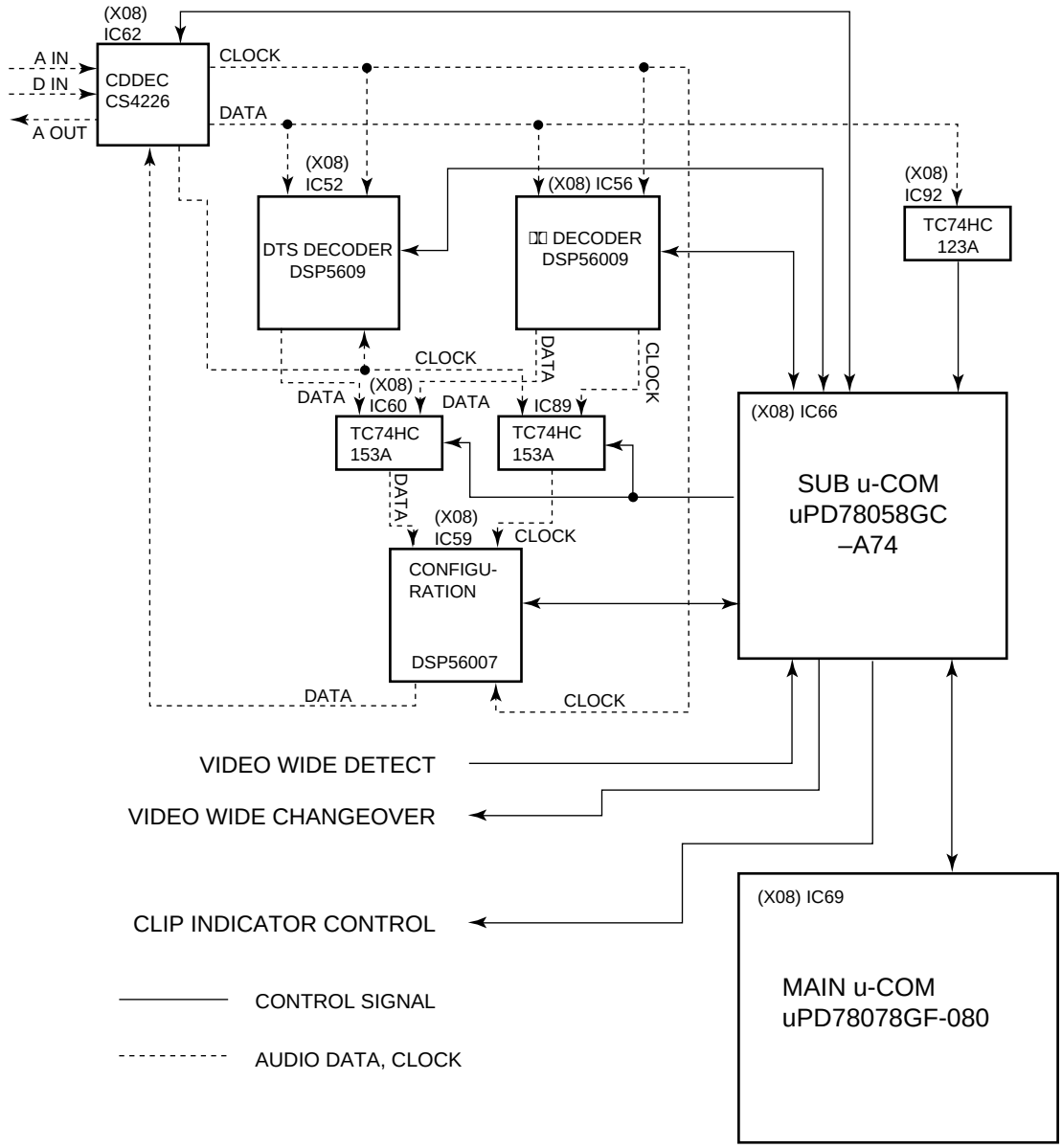
TAPE MONITOR	INPUT MODE	SURROUND MODE	INPUT SELECTOR	(X25 : IC23) TC9162							(X11 : IC4) TC9163														(X11 : IC1, 2) TC9164															
				SW1	SW2	SW3	SW4	SW5	SW6	SW7	L1	L2	L3	L4	L5	L6	L7	L8	R1	R2	R3	R4	R5	R6	R7	R8	L1	L2	L3	L4	L5	L6	L7	L8	R1	R2	R3	R4	R5	R6	R7	R8
			Pin No.	② ㉗	③ ㉖	⑤ ㉔	⑥ ㉓	⑧ ㉑	⑨ ⑳	⑪ ⑱	②	③	④	⑥	⑦	⑧	⑩	⑪	㉗	㉖	㉕	㉓	㉒	㉑	⑲	⑱	②	③	④	⑤	⑦	⑧	⑩	⑪	㉗	㉖	㉕	㉔	㉒	㉑	⑲	⑱
	ANALOG		TUNER							O																															
			MD/TAPE1																																O							
			CD1																															O								
			CD2																																			O				
			VIDEO1																O						O																
			VIDEO2																	O		O																			
			VIDEO3																		O		O																		
			VIDEO4															O						O																		
ROOM A (TAPE 2 is set with CD 2/TAPE 2 SELECTOR)																																									
TAPE2 OFF	ANALOG	—	PHONO			O	O																									O	O						O	O
			TUNER			O		O	O																							O	O						O	O
			MD/TAPE1			O																						O					O						O	O
			CD1			O																					O					O	O						O	O
			VIDEO1			O					O														O							O	O						O	
			VIDEO2			O						O		O																			O	O							O
			VIDEO3			O							O		O																		O	O						O	O
			VIDEO4			O										O	O																O	O						O	O
			AV AUX			O																								O			O	O						O	O
	DIGITAL	STEREO	MD/TAPE1																										O				O				O			O	O
			CD1																										O			O	O				O			O	O
			VIDEO1																										O			O	O				O			O	
			VIDEO2																										O			O	O				O				O
			VIDEO3																										O			O	O				O			O	O
			VIDEO4																										O			O	O				O			O	O
		EXCEPT STEREO	MD/TAPE1			O																						O					O							O
			CD1			O																					O					O	O						O	O
			VIDEO1			O					O			O																		O	O						O	O
			VIDEO2			O						O			O																	O	O						O	O
			VIDEO3			O							O			O																O	O						O	O
			VIDEO4			O											O									O						O	O						O	O
TAPE2 ON	ANALOG	—	PHONO				O																									O	O					O	O	O
			TUNER					O	O																							O	O					O	O	O
			MD/TAPE1																									O						O				O	O	O
			CD1																								O					O	O				O	O	O
			VIDEO1								O														O						O	O				O	O		
			VIDEO2									O		O																		O	O				O			O
			VIDEO3										O		O																	O	O				O	O	O	
			VIDEO4													O	O															O	O				O	O	O	
			AV AUX																												O		O	O				O	O	O	
	DIGITAL	STEREO	MD/TAPE1																																			O				
			CD1																																			O				
			VIDEO1																																			O				
			VIDEO2																																			O				
			VIDEO3																																			O				
			VIDEO4																																			O				
		EXCEPT STEREO	MD/TAPE1																																			O				
			CD1																																			O				
			VIDEO1																																			O				
			VIDEO2																																			O				
			VIDEO3																																			O				
			VIDEO4																																			O				

CD 2 is set CD2/TAPE 2 : (X11) IC1, 2 ⑪ pin OFF

CIRCUIT DESCRIPTION

6. Sub microprocessor uPD78058GC-A74 (X08 : IC66)

6-1 Microprocessor periphery block diagram



CIRCUIT DESCRIPTION

6-2 Pin description

Pin No.	Pin Name	I/O	Connect	Description
1	DSP1_RESET	O	P. D.	DSP IC1 (AC-3) RESET
2	DSP3_SS	O	P. U.	DSP IC3 (THX) SLAVE SELECT
3	DSP3_HREQ	I	P. D.	DSP IC3 (THX) HOST REQUEST
4	–	–	GND	–
5	DSP3_RESET	O	P. D.	DSP IC3 (THX) RESET
6	N. C.	I	P. D.	–
7	AVref1	–	+5V	–
8	DSP3_MI	I	P. D.	DSP IC3 (THX) MASTER IN SLAVE OUT
9	DSP3_MO	O	P. D.	DSP IC3 (THX) MASTER OUT SLAVE IN
10	DSP3_CK	O	P. D.	DSP IC3 (THX) CLOCK
11	MDT	I	P. D.	Microprocessor communication MASTER DATA
12	SDT	O	P. D.	Microprocessor communication SLAVE DATA
13	MCK	I	P. D.	Microprocessor communication MASTER CLOCK
14	MREQ	I	P. D.	Microprocessor communication MASTER REQUEST
15	SREQ	O	P. D.	Microprocessor communication SLAVE REQUEST
16	DSP1_MI/DSP2_MI	I	P. D.	DSP IC1, 2 (AC-3, DTS) MASTER IN
17	DSP1_MO/DSP2_MO	O	P. D.	DSP IC1, 2 (AC-3, DTS) MASTER OUT
18	DSP1_CK_DSP2_CK	O	P. D.	DSP IC1, 2 (AC-3, DTS) CLOCK
19~21	NO_MUTE_TIME0~2	I	P. U.	PCM NONE INPUT UNMUTE HOLD TIME SETTING

pin	19	20	21	TIME(s)	pin	19	20	21	TIME(s)
	L	L	L	0		H	L	L	4
	L	L	H	1		H	L	H	5
	L	H	L	2		H	H	L	6
	L	H	H	3		H	H	H	5

22~26	N. C.	I	P. U.	–
27	PEAK_LEVEL	O	P. D.	CLIP INDICATOR LED CONTROL
28	WIDE_0	O	P. D.	S-VIDEO WIDE/NORMAL CHANGEOVER CONTROL (MONITOR OUT)
29~32	WIDE_I0~I3	I	P. D.	S-VIDEO WIDE/NORMAL DETECT0 (VIDEO4~1)
33	Vss	–	GND	–
34	WIDE_I4	I	P. D.	S-VIDEO WIDE/NORMAL DETECT4 (AV AUX)
35~40	N. C.	I	P. D.	–
41	DSP_SEL_DISABLE	O	P. D.	DSP SELECTOR OUTPUT DISABLE (mute)
42	N. C.	I	P. D.	–
43	SEL_ANALOG	O	P. D.	INPUT DIGITAL/ANALOG DISTINCTION analog: L, digital: H
44~46	N. C.	I	P. D.	–
47	SUB_MUTE	O	P. D.	SUB MUTE CONTROL
48	N. C.	I	P. D.	–
49	2090/2080	I	P. D.	2090/2080 MODEL DISTINCTION
50	DSP_SEL1	O	P. D.	DSP SELECTOR TC74HC CHANGEOVER H: DTS, L: DOLBY
51	DSP_SEL2	O	P. D.	DSP SELECTOR TC74HC CHANGEOVER H: DTS, L: DOLBY
52	CS_OVL/ERR	I	P. D.	CODEC OVER LEVEL/ERROR
53	CS_PDN	O	P. D.	CODEC POWER DOWN
54	CS_FREQ1	I	P. D.	CODEC FS CHECK1
55	CS_FREQ0	I	P. D.	CODEC FS CHECK0
56	CS_CDIN	O	P. D.	CODEC DATA OUT
57	CS_CS	O	P. D.	CODEC CHIP SELECT
58	CS_CCLK	O	P. D.	CODEC CLOCK
59	CS_CDOUT	I	P. D.	CODEC DATA IN
60	RESET	I	–	RESET
61	CS_AUDIO	I	P. D.	CODEC AUDIO/NON-AUDIO DETECT H: DATA, L: PCM
62	CS_AC3	I	P. D.	CODEC AC-3 H: AC-3 DETECT
63	DSP2_DTS_DTCT	I	P. D.	DSP IC2 (DTS) DTS DETECT H: DTS DETECT

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Connect	Description
64	DSP1_GPI0	O	P. D.	DSP IC1 (AC-3) DSP MODE USE SETTING PARAMETER
65	DATA_IN	I	P. D.	DIR OUTPUT DETECT H: DIGITAL DATA IN
66	N. C.	I	P. D.	–
67	N. C.	I	P. D.	–
68	Vdd	–	+5V	
69, 70	X2, 1	–	–	CLOCK OSCILLATOR 4.23MHz
71	IC (Vpp)	–	GND	–
72	N. C.	–	OPEN	–
73	P07	–	–	–
74	AVdd	–	+5V	–
75	AVrefo	–	GND	–
76	$\overline{\text{DSP2_HREQ}}$	I	P. D.	DSP IC2 (DTS) HOST REQUEST
77	$\overline{\text{DSP2_SS}}$	O	P. U.	DSP IC2 (DTS) SLAVE SELECT
78	$\overline{\text{DSP2_RESET}}$	O	P. D.	DSP IC2 (DTS) RESET
79	$\overline{\text{DSP1_HREQ}}$	I	P. D.	DSP IC1 (AC-3) HOST REQUEST
80	$\overline{\text{DSP1_SS}}$	O	P. U.	DSP IC1 (AC-3) SLAVE SELECT

6-3 DIR A/D & D/A CONVERTER (CODEC) CS4226KQC (X08 : IC62)

6-3-1 CODEC CS4226

Main pin description

Pin No.	Pin Name	Description
3	SCL/CCLK	Serial communication CLOCK
4	SDA/CDOUT	Serial data line CS4226 → SUB uCOM
5	ADI/CD IN	Serial data line SUB uCOM → CS4226
6	ACO/CS	CS4226 CHIP SELECT
7	SPI/I2C	Serial control format setting
8	PDN	Powerdown Pin
9	AIN3R/AUDIO	$\overline{\text{audio}}$/non-audio detect
10	AIN3L/AUTODATA	Input C bit, V bit H : Signal of AC-3, MPEG, DTS
11	AIN2L/FREQ0	Channel Status Freq. Bit
12	AIN2R/FREQ1	Channel Status Freq. Bit
30	OVL/ERR	Input Analog : ADC clipping indicator Input Digital : D/PDIF error indicator

⑪⑫ FREQ0/FREQ1

	32kHz	44.1kHz	48kHz	Reserved
FREQ1	H	L	L	H
FREQ0	H	L	H	L

⑩ AC3

AC-3/MPEG Data Stream Input	Exist	None
AC3, MPEG, DTS	1	0

㉚ CLIP INDICATOR (X25 : D66) CONTROL

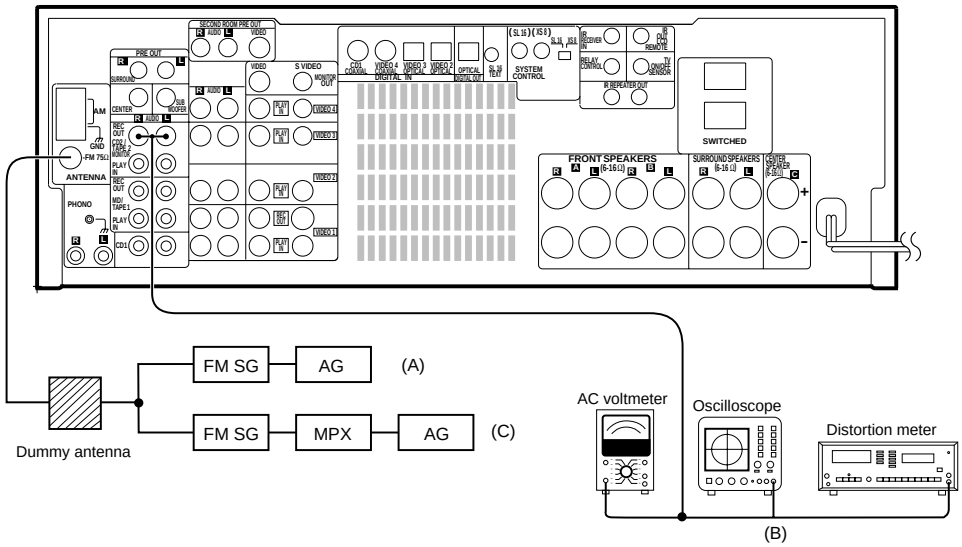
	IC62 (CODEC)	IC66 (Sub u-COM)
INPUT SOURCE	㉚ CS_OVL_ERR	㉗ PEAK_LEVEL OUTPUT
DIGITAL	don't care	L
ANALOG	L	L
	H	H

H : LED LIGHTING

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION : Except M type		**SELECTOR : FM**		***Adjust NO.1 and NO.2 repeat.**			
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±75kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN12 ① and CN12 ② (X11)	MONO 98.0MHz	L604 (X11)	0V	(a)
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±75kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L605 (X11)	Minimum distortion	(a)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±67.5kHz dev. Selector : L or R Pilot : ±7.5kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT(RF FRONTEND : A1)	Minimum distortion (L or R)	(a)
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±75kHz dev. 15dBf (ANT. input)	(B)	MONO 98.0MHz	VR601 (X11)	Adjust VR601 and stop at the point where ED1 (TUNED) goes on.	(a)
FM SECTION :M type only		**SELECTOR : FM**					
1	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±67.5kHz dev. Selector : L or R,Pilot : ±7.5kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT (TUNER UNIT : A601)	Minimum distortion (L or R)	(a)
2	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±75kHz dev. 15dBf (ANT. input)	(B)	MONO 98.0MHz	VR601 (TUNER UNIT)	Adjust VR601 and stop at the point where ED1 (TUNED) goes on.	(a)

SYSTEM CONNECTIONS

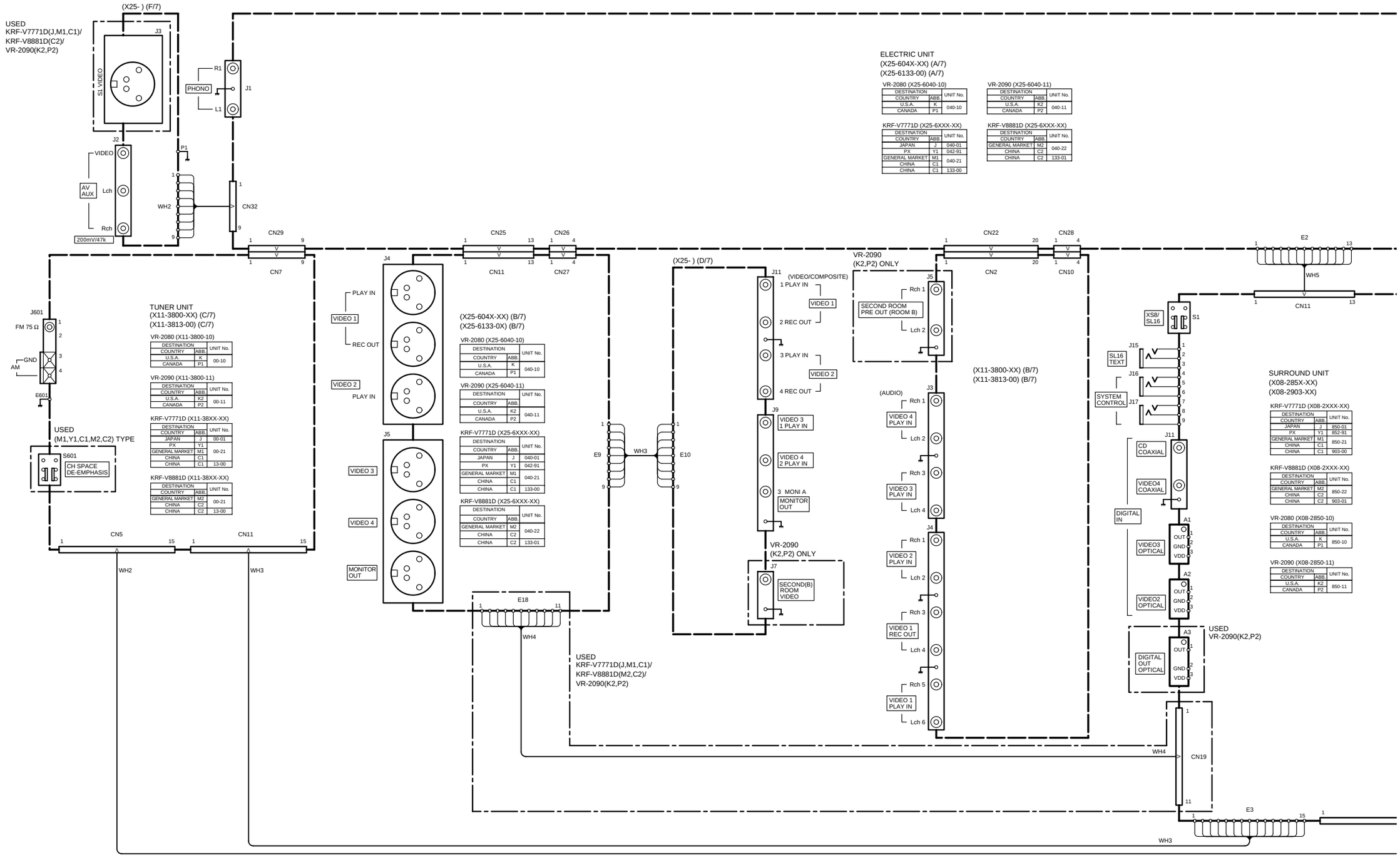


ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
AUDIO SECTION		**SPEAKER : A**	**PREOUT : OFF**		**PROLOGIC : ON**		
<1>	IDLE CURRENT	—	Connect a DC voltmeter across CN1 (each port) 1, 2 pin : L 5, 6 pin : R 3, 4 pin : SL 7, 8 pin : SR 9, 10 pin : C	(FRONT 2ch MODE) Volume:0	VR1(L) VR2(R) VR3(SL) VR4(SR) VR5(CENTER) (X07-)	10mV	

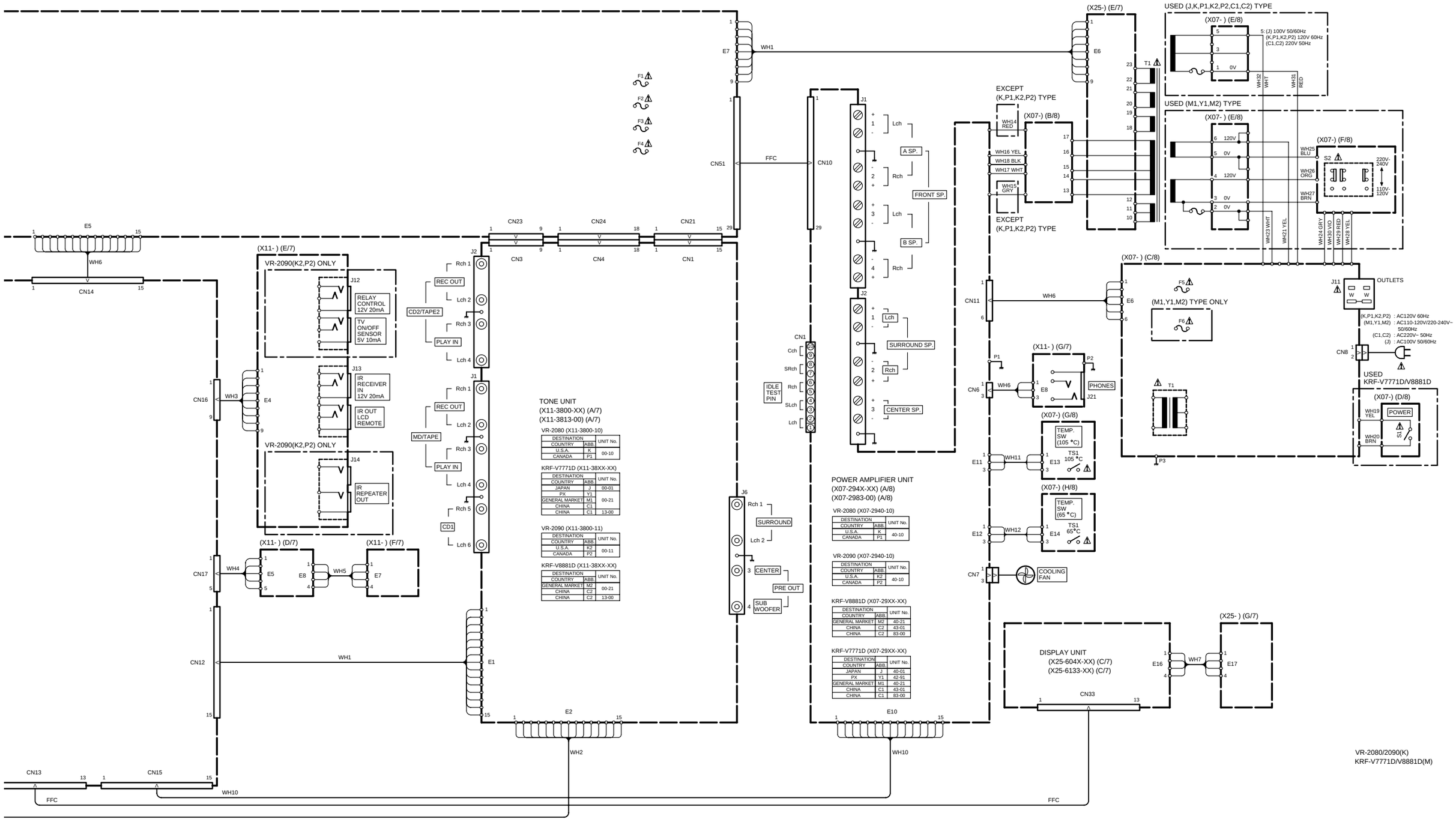
KRF-V7771D/V8881D/VR-2080/2090

WIRING DIAGRAM



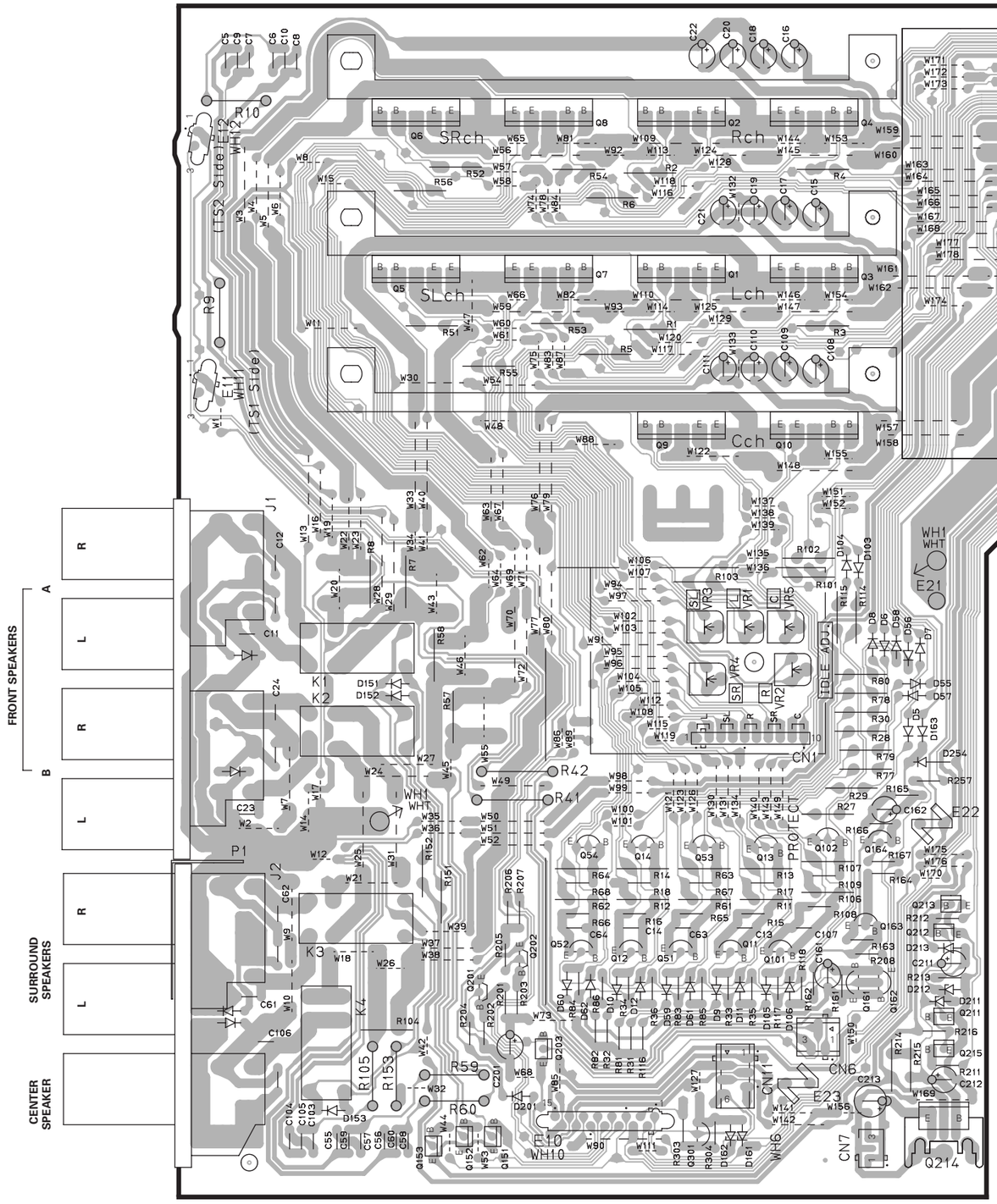
KRF-V7771D/V8881D/VR-2080/2090

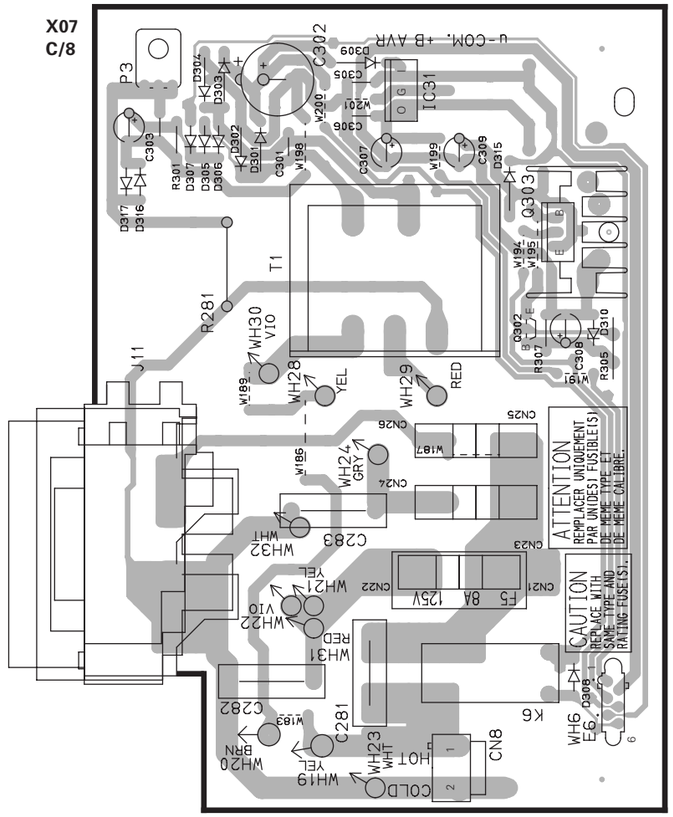
WIRING DIAGRAM



PC BOARD(Component side view)

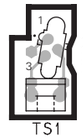
X07-294X-XX A/8 (J70-1153-11)



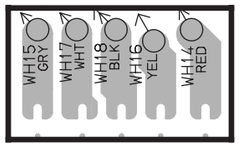


X07 H/8

X07 G/8

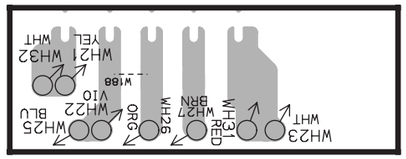


X07 B/8

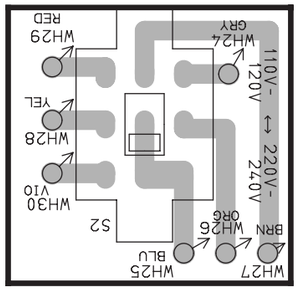


X07 C/8

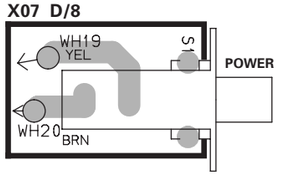
X07 E/8



X07 F/8



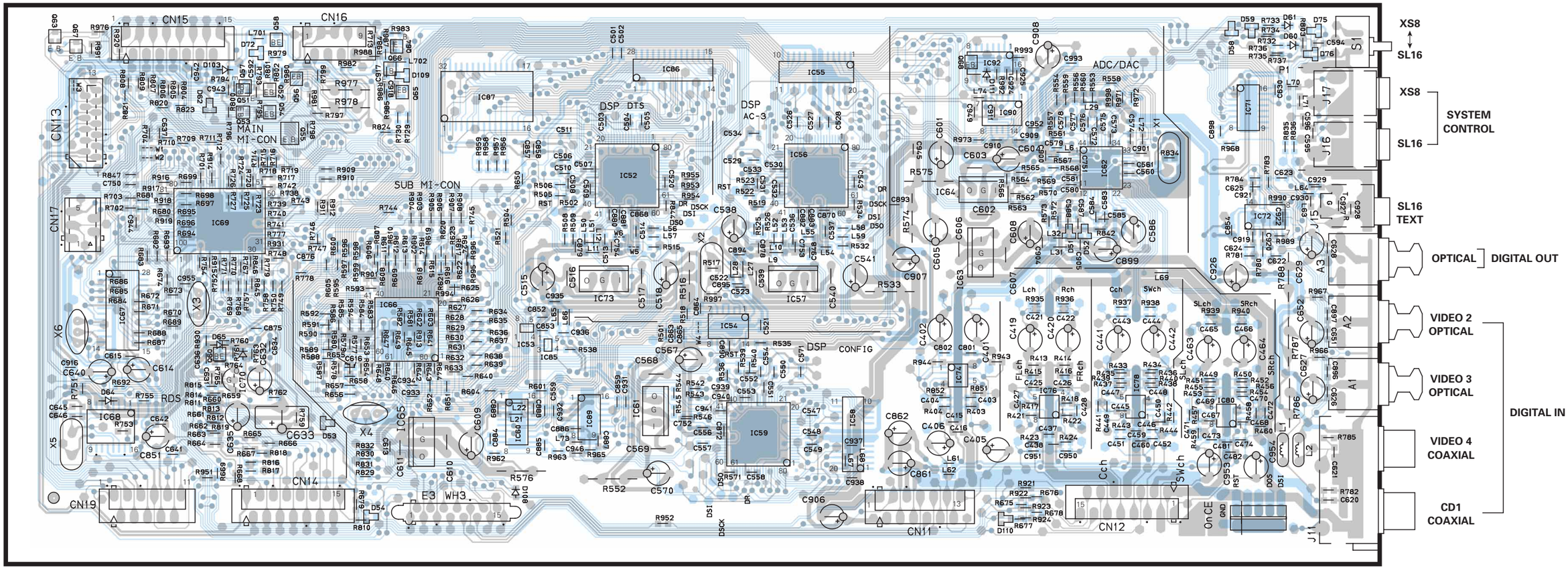
X07 D/8



Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

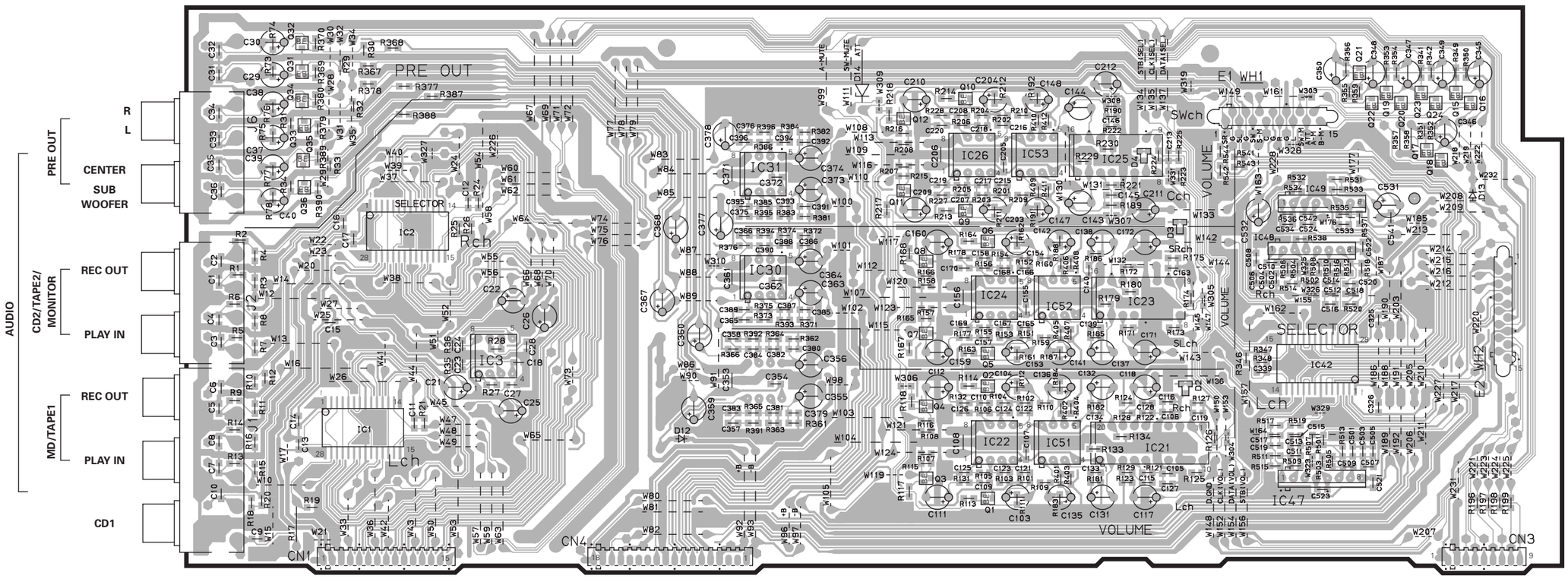
X08-285X-XX (J70-1143-11)



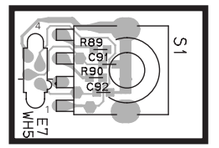
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

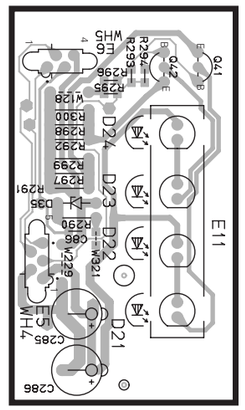
X11-3800-10 A/7 (J70-1198-11)



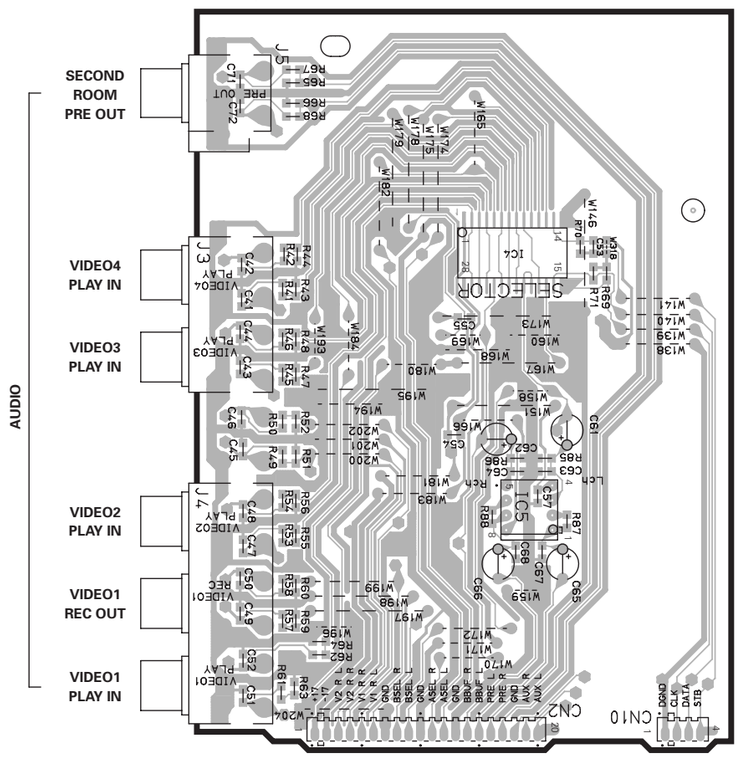
X11 F/7



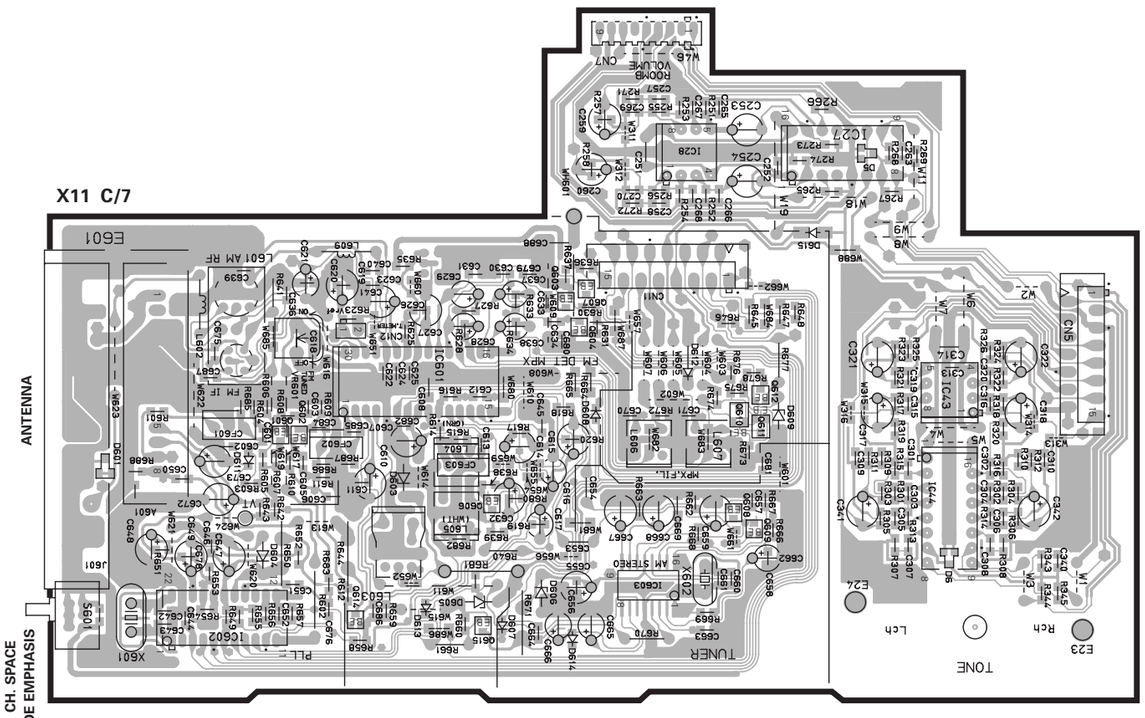
X11 D/7



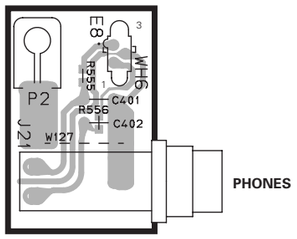
X11 B/7



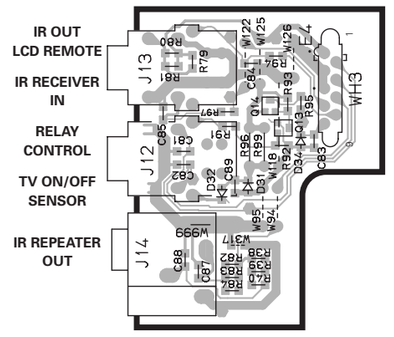
X11 C/7



X11 G/7



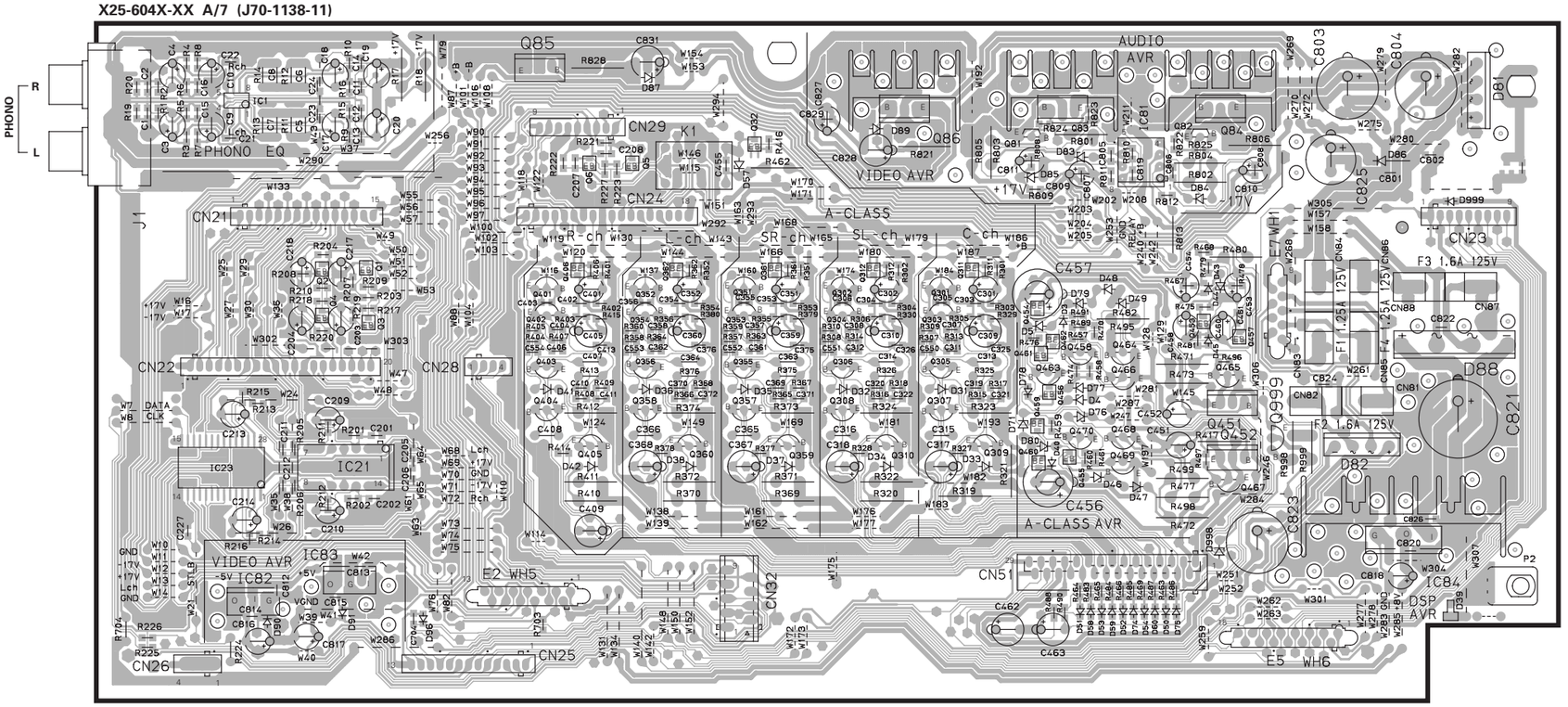
X11 E/7



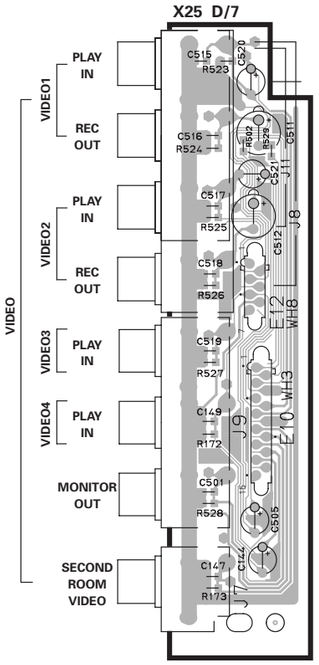
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

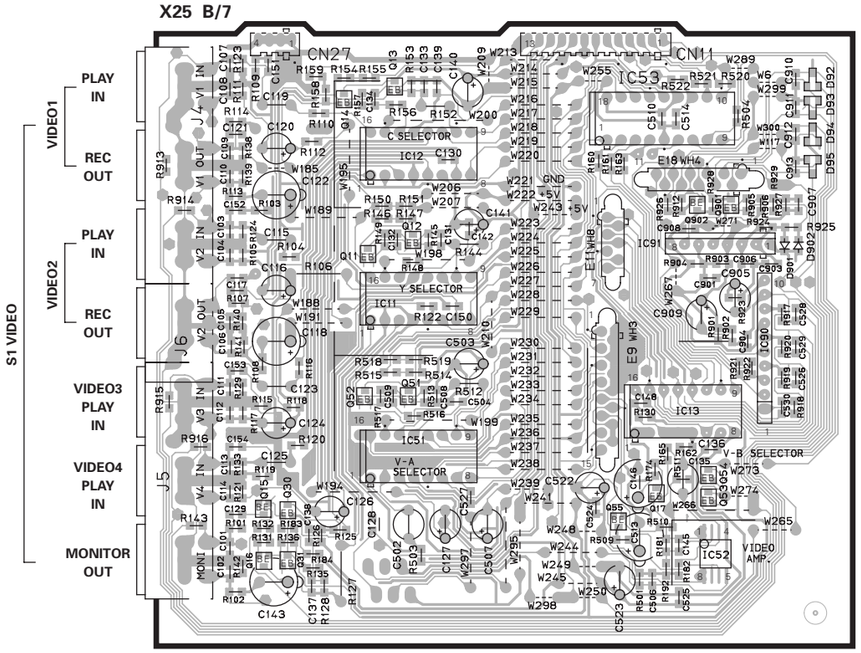
X25-604X-XX A/7 (J70-1138-11)



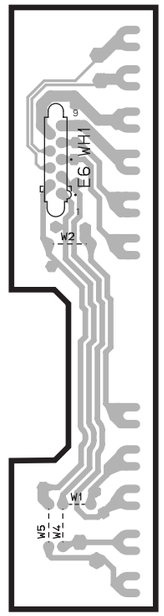
X25 D/7



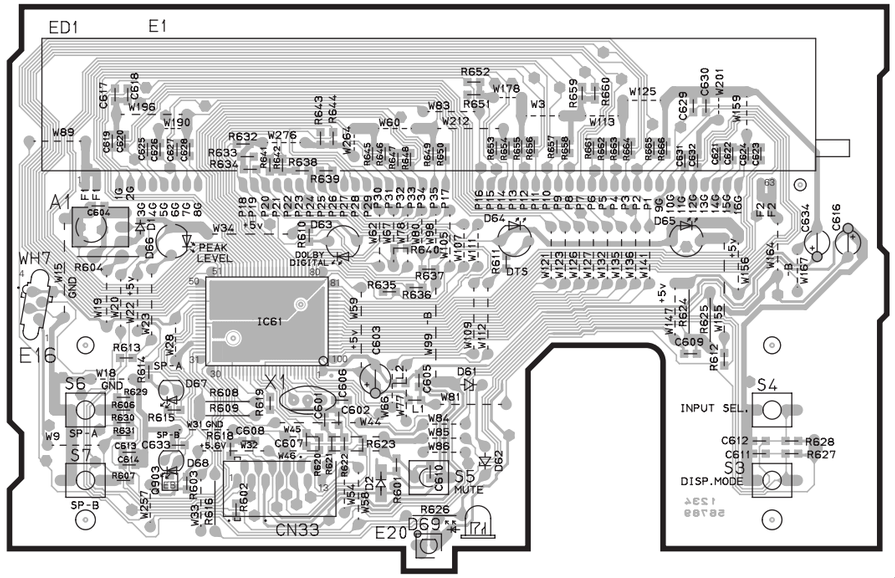
X25 B/7



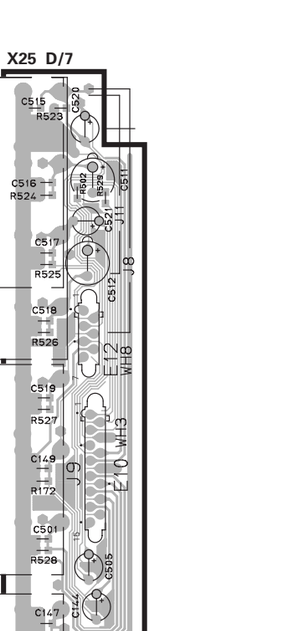
X25 E/7



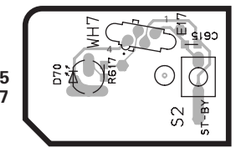
X25 C/7



X25 F/7



X25 G/7



Refer to the schematic diagram for the value of resistors and capacitors.

TUNER UNIT
(X11-3800-XX) (C/7)
(X11-3813-00) (C/7)

(J) TYPE
A601 (W02-2621-05)

FET : 2SK302
TR1 : 2SC2714
TR2,3 : 2SC2413
D1-3 : HVU202 or 1T363
D4 : HSU277 or 1SS356

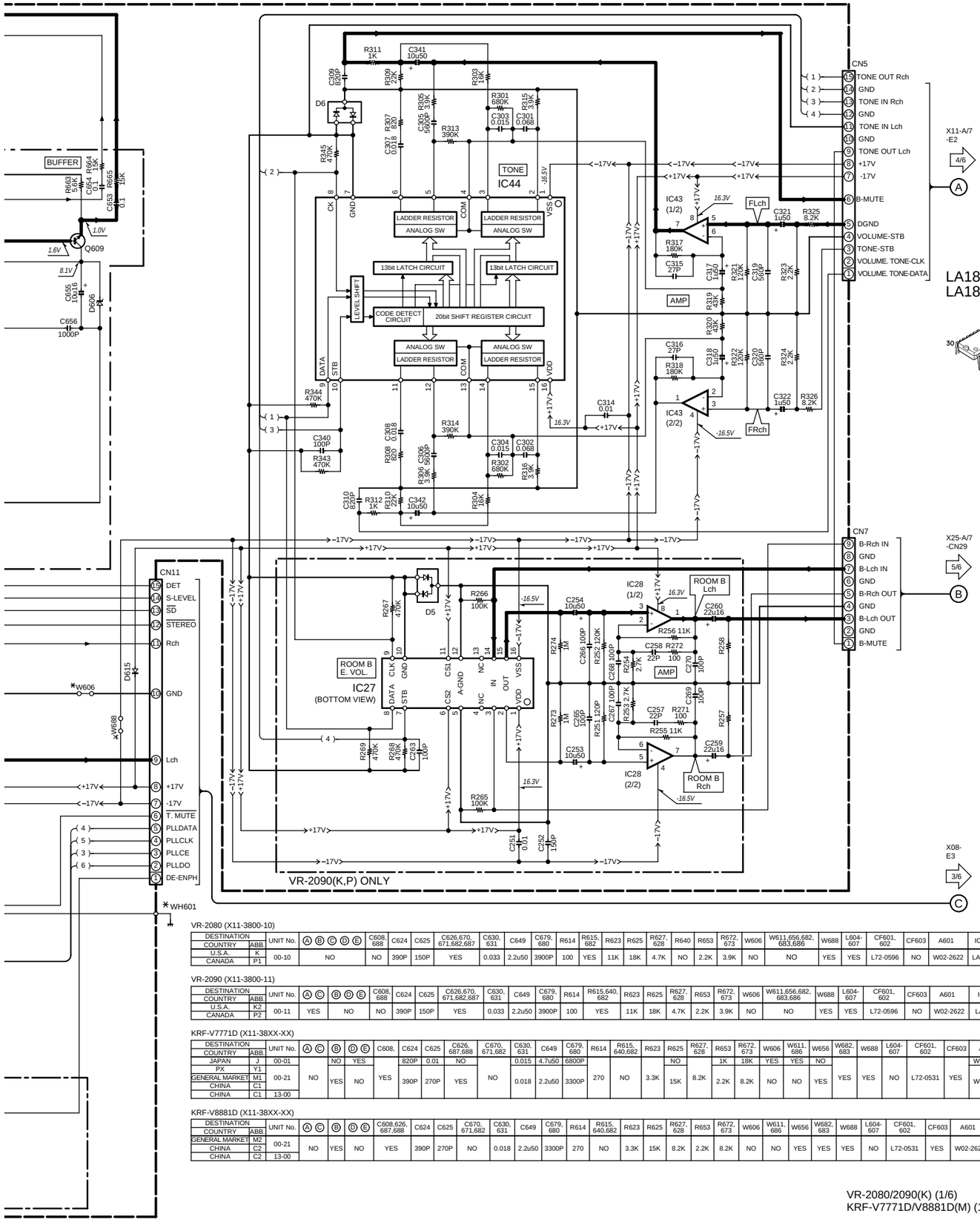
(K,P,Y,M,C) TYPE
A601 (W02-2622-05)

FET : 2SK302
TR1 : 2SC2714
TR2,3 : 2SC2413
D1-3 : HVU202 or 1T362

IC27	:	TC9413P
IC28,43	:	NJM4565D
IC44	:	TC9184AP
IC601	:	*
IC602	:	LC72131
IC603	:	MC13028AM
Q601,603,604,606-609	:	2SC4081(R,S) or 2SC4116(Y,GR)
Q602,612,614,615	:	2SA1576A(R,S) or 2SA1586(Y,GR)
Q610,611	:	2SD1757K
D5,6	:	DA204U or 1SS302
D601	:	DA204K
D603,606	:	RD8.2ES(B2) or HZS8.2N(B2)
D604	:	RD5.1ES(B2) or HZS5.1N(B2)
D605	:	RD2.7ES(B2) or HZS2.7N(B2)
D607,608,610,611,613,614	:	MA111
D609	:	RD3.3ES(B2) or HZS3.3N(B2)
D612	:	1SS133 or HSS104
D615	:	U1BC44

SIGNAL LINE
GND LINE
+B LINE
+B LINE

USED (M,Y,C) TYPE
FM:100kHz 75uS
AM:10kHz
FM:50kHz 50uS
AM:9kHz
CH SPACE DE-EMPHASIS



VR-2080 (X11-3800-10)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ	C608, 688	C624	C625	C626,670, 671,682,687	C630, 631	C649	C679, 680	R614	R615, 682	R623	R625	R627, 628	R640	R653	R672, 673	W606	W611,656,682, 683,686	W688	L604- 607	CF601, 602	CF603	A601	IC601	CN12	D614	WH601
COUNTRY	ABB.																											
U.S.A.	K	00-10	NO	NO	390P	150P	YES	0.033	2.2u50	3900P	100	YES	11K	18K	4.7K	NO	2.2K	3.9K	NO	NO	YES	YES	L72-0596	NO	W02-2622	LA1837	YES	NO	NO
CANADA	P1																											

VR-2090 (X11-3800-11)

DESTINATION		UNIT No.	Ⓐ Ⓒ	Ⓑ Ⓓ Ⓔ	C608, 688	C624	C625	C626,670, 671,682,687	C630, 631	C649	C679, 680	R614	R615,640, 682	R623	R625	R627, 628	R653	R672, 673	W606	W611,656,682, 683,686	W688	L604- 607	CF601, 602	CF603	A601	IC601	CN12	D614	WH601
COUNTRY	ABB.																											
U.S.A.	K2	00-11	YES	NO	NO	390P	150P	YES	0.033	2.2u50	3900P	100	YES	11K	18K	4.7K	2.2K	3.9K	NO	NO	YES	YES	L72-0596	NO	W02-2622	LA1837	YES	NO	NO
CANADA	P2																											

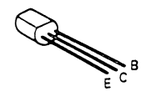
KRF-V7771D (X11-38XX-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ	Ⓑ	Ⓓ Ⓔ	C608,	C624	C625	C626, 687,688	C670, 671,682	C630, 631	C649	C679, 680	R614	R615, 640,682	R623	R625	R627, 628	R653	R672, 673	W606	W611, 686	W656	W682, 683	W688	L604- 607	CF601, 602	CF603	A601	IC601	CN12	D614	WH601
COUNTRY	ABB.																														
JAPAN	J	00-01		NO	YES		820P	0.01	NO		0.015	4.7u50	6800P				NO		1K	18K	YES	YES	NO					W02-2621			YES	NO
	PX																														
GENERAL MARKET	M1	00-21	NO	YES	NO	YES	390P	270P	YES	NO	0.018	2.2u50	3300P	270	NO	3.3K	15K	8.2K	2.2K	8.2K	NO	NO	YES	YES	YES	NO	L72-0531	YES	W02-2622	LA1838	NO	NO	YES
CHINA	C1																														
CHINA	C1	13-00																													

KRF-V8881D (X11-38XX-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ	Ⓑ	Ⓓ Ⓔ	C608,626, 687,688	C624	C625	C670, 671,682	C630, 631	C649	C679, 680	R614	R615, 640,682	R623	R625	R627, 628	R653	R672, 673	W606	W611, 686	W656	W682, 683	W688	L604- 607	CF601, 602	CF603	A601	IC601	CN12	D614	WH601
COUNTRY	ABB.																														
GENERAL MARKET	M2	00-21	NO	YES	NO	YES	390P	270P	NO	0.018	2.2u50	3300P	270	NO	3.3K	15K	8.2K	2.2K	8.2K	NO	NO	YES	YES	YES	NO	L72-0531	YES	W02-2622	LA1838	NO	NO	YES
CHINA	C2																														
CHINA	C2	13-00																													

2SA1123
2SA992
2SC1845
2SC2003
2SC2631
2SC3244
2SC3940A



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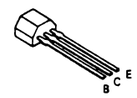
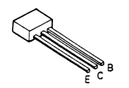
2SC2458



UN5119
UN5219
2SA1586
2SC4081
2SC4116

2SA1535
2SB1370
2SD2061

UN4212
UN4219
2SA1309A
2SC3311A



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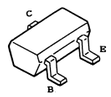
2SD2012

2SD1757K



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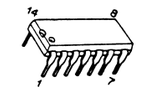
NJM4565D

NJM2058D



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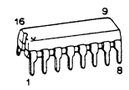
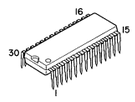


LA1837
LA1838



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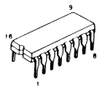

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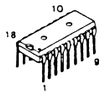

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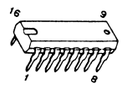

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NJM4565M
NJM4580ED
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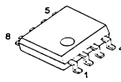

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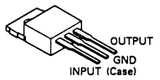

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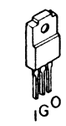

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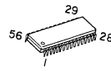
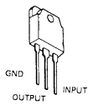
MA142WA
UN5212

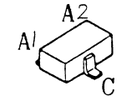
TC7S04F



SI-3082V



1SS301



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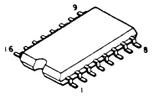

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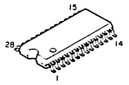
TC9163AF
TC9164AF



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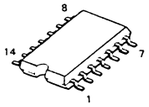

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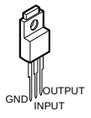

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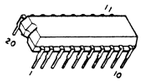
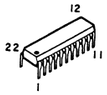


LC72131



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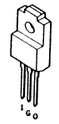

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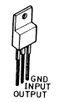


NJM4565L

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM made.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

VR-2080/2090(K) (1/6)
KRF-V7771D/V8881D(M) (1/6)

Y05-3570-10

KRF-V7771D/V8881D/VR-2080/2090

KENWOOD

U V W X Y Z AA AB AC AD

1 2 3 4 5 6 7

VR-2080 (X25-6040-10)

DESTINATION		UNIT No.	Ⓒ Ⓓ Ⓔ Ⓕ Ⓜ Ⓠ Ⓡ Ⓧ	E18
COUNTRY	ABB.			
U.S.A.	K	040-10	NO	NO
CANADA	P1			

VR-2090 (X25-6040-11)

DESTINATION		UNIT No.	Ⓒ Ⓓ Ⓔ Ⓕ Ⓜ Ⓠ Ⓡ Ⓧ	E18
COUNTRY	ABB.			
U.S.A.	K2	040-11	YES	YES
CANADA	P2			

KRF-V7771D (X25-6XXX-XX)

DESTINATION		UNIT No.	Ⓒ Ⓓ Ⓜ Ⓡ Ⓧ	Ⓔ Ⓕ Ⓠ	E18
COUNTRY	ABB.				
JAPAN	J	040-01	NO	YES	YES
PX	Y1	042-91		NO	NO
GENERAL MARKET	M1	040-21		YES	YES
CHINA	C1				
CHINA	C1	133-00			

KRF-V8881D (X25-6XXX-XX)

DESTINATION		UNIT No.	Ⓒ Ⓓ	Ⓔ Ⓕ Ⓜ Ⓠ Ⓡ Ⓧ	E18
COUNTRY	ABB.				
GENERAL MARKET	M2	040-22	NO	YES	YES
CHINA	C2				
CHINA	C2	133-01			

(X25-604X-XX) (B/7)
(X25-6133-0X) (B/7)

*Ⓔ

J4 (S1 VIDEO)

PLAY IN
VIDEO 1
REC OUT
VIDEO 2
PLAY IN

R913 4.7K (5) C119 0.022 R110 1
C107 100P R123 180K C151 0.1 R109 75 R111 75 C108 100P
C120 0.22u50 R112 1
R114 75 C121 0.022 W185
C109 47P R139 10K R138 10K C110 47P
R113 75 C122 330u16 W189
R914 4.7K (4) C115 0.022 R104 1
C103 100P R124 180K C152 0.1 R103 75 R105 75 C104 100P
C116 0.22u50 R106 1

J5

VIDEO 3 (PLAY IN)
VIDEO 4 (PLAY IN)
MONITOR OUT

R915 4.7K (3) C123 0.022 R116 1
C111 100P R129 180K C153 0.1 R115 75 R117 75 C112 100P
C124 0.22u50 R118 1 W188
R916 4.7K (2) C125 0.022 R120 1
C113 100P R133 180K C154 0.1 R119 75 R121 75 C114 100P
C126 0.22u50 R122 1
R143 10K (1) R101 75 C129 0.022
C101 100P R142 10K C102 100P
R102 75 C143 330u16

Q15 Q16 Q15,16 V-MUTE
Q30 Q31 Q12,31 BUFFER
Q14,30 BUFFER
Q12

C139 0.01 C140 10u50
W200 W216 W218 W217
R156 100
IC12 C SELECTOR
IC11 Y SELECTOR
R125 100 R126 20K C138 22P C134 22P R157 10K Q14
C120 100P W220 W219
R158 220 R159 360
R183 360 R184 220 W206 W207
C141 10u50 C142 0.01
W198 W223 W225 W224
R148 100
R127 100 R128 20K C137 22P R149 10K C132 22P
C150 100P W226
R136 220 R135 220
R131 10K R132 10K
R150 220 R151 220

+5V –5V

IC90 PERFECT MACRO DETECTOR

IC90	CONTROL	
⑩ V OUT	② A	③ B
VIDEO1	L	H
VIDEO2	L	L
VIDEO3	H	H
VIDEO4	H	L

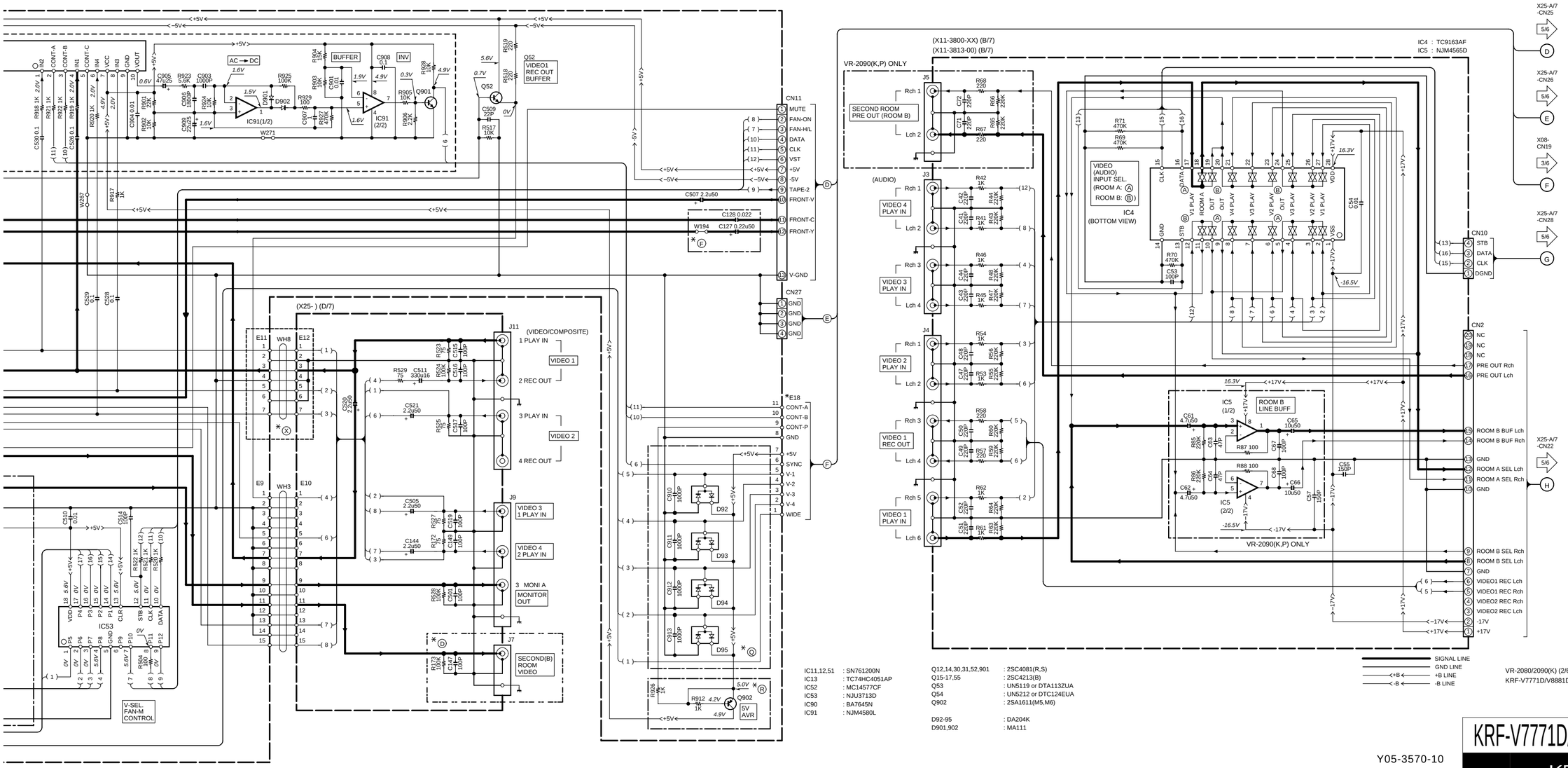
*Ⓜ

IC11,12,51

① MONITOR OUT	CLT (CONTROL) ⑬ A	⑪ B	⑨ C	⑧ D	⑦ E
VIDEO1	L	L	L	L	L
VIDEO2	H	L	H	L	L
VIDEO3	L	H	L	H	L
VIDEO4	H	H	H	H	L
AV AUX	H	H	H	H	H
IC53 PORT	P1	P3	P2	P4	P5

ROOM A(COMP.) VIDEO SEL.
IC51
R516 100
C502 10u25 C503 10u50 C504 0.01
C527 100P
Q54 Q53 R503 100 R511 22K
Q55 Q17,55 VIDEO MUTE R510 10K
R165 10K Q17
R509 75 C513 330u16
R174 75 C146 330u16
*Ⓒ
R501 10K C506 22P IC52 (2/2) ROOM A
C522 10u50 C524 0.01
ROOM B
IC52 (1/2)
R192 560 R182 10K
C523 10u50 C525 0.01
R181 560 C145 22P
C148 0.01
R160 100 R161 100 R163 100
IC13 ROOM B VIDEO SEL.
C135 10u25 R162 100 R130 220K C136 0.01

IC13	CONTROL	
⑤ or ⑦ OUT	⑪ A	⑩ B
VIDEO1	L	L
VIDEO2	H	H
VIDEO3	L	H
VIDEO4	H	L
IC53 PORT	P6	P7



IC11,12,51 : SN761200N
IC13 : TC74HC4051AP
IC52 : MC14577CF
IC53 : NJU3713D
IC90 : BA7645N
IC91 : NJM4580L

Q12,14,30,31,52,901 : 2SC4081(R,S)
Q15-17,55 : 2SC4213(B)
Q53 : UN5119 or DTA113ZUA
Q54 : UN5212 or DTC124EUA
Q902 : 2SA1611(M5,M6)

D92-95 : DA204K
D901,902 : MA111

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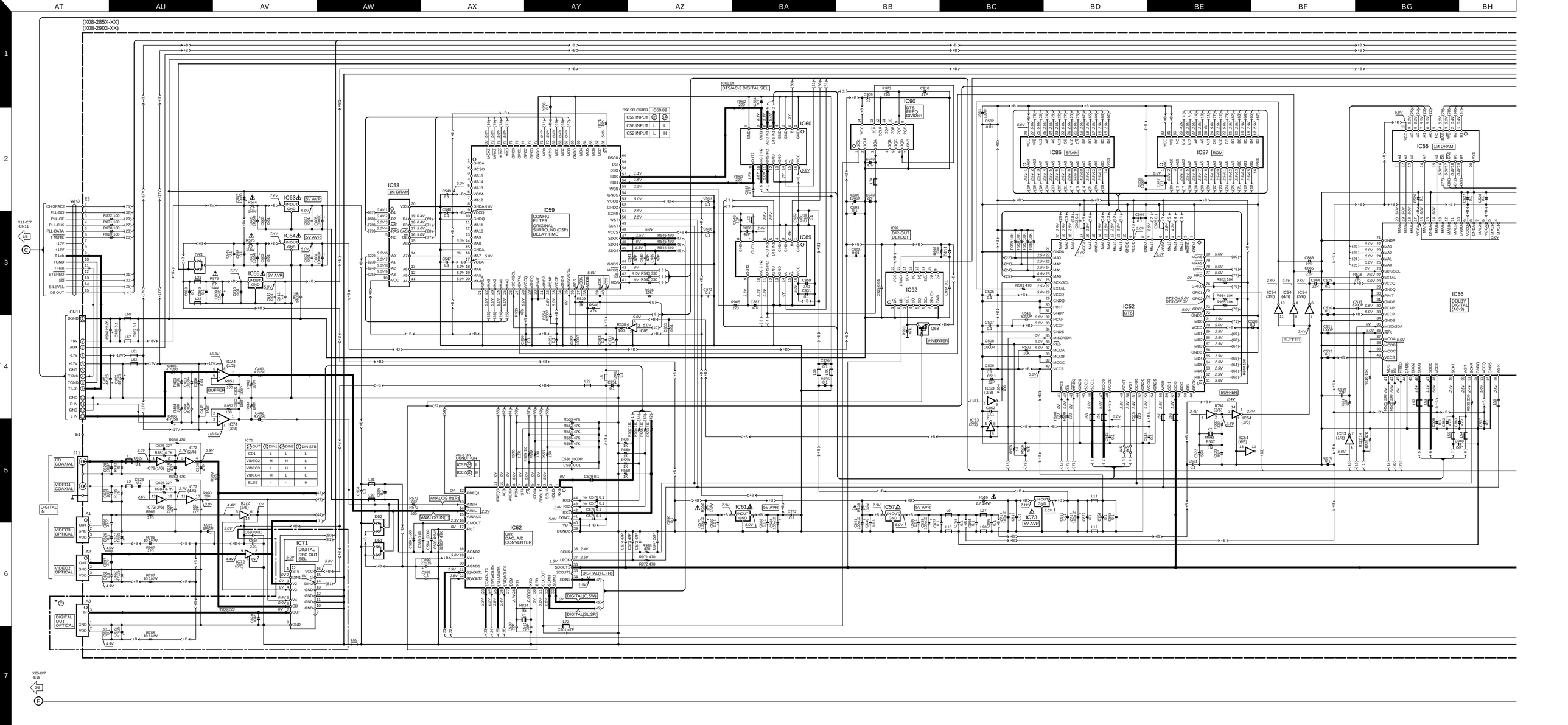
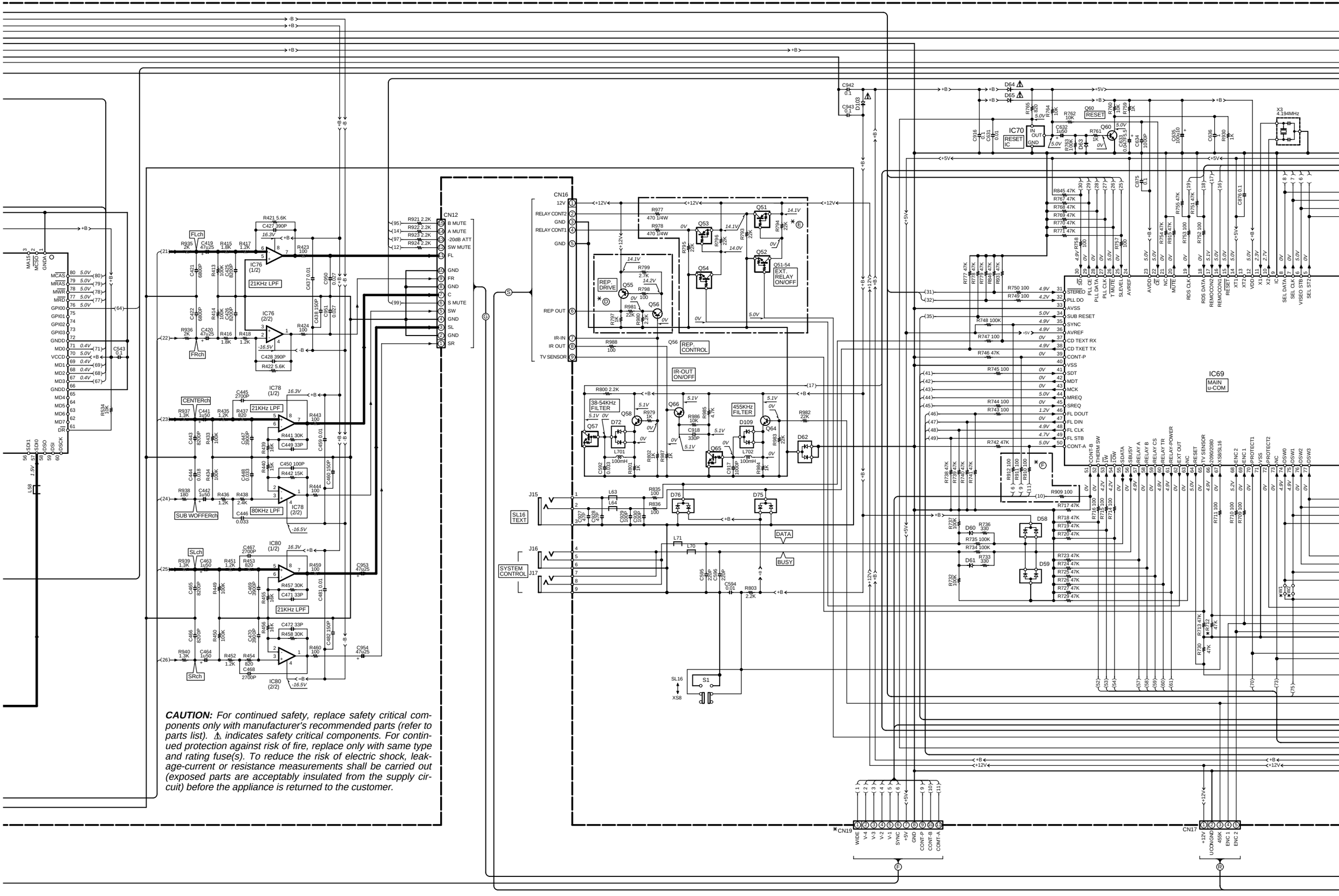
VR-2080/2090(K) (2/6)
KRF-V7771D/V8881D(M) (2/6)

Y05-3570-10

KRF-V7771D/V8881D/VR-2080/2090

KENWOOD


AT
AU
AV
AW
AX
AY
AZ
BA
BB
BC
BD
BE
BF
BG
BH
1
2
3
4
5
6
7
(X08-285X-XX)
(X08-2903-XX)
IC58
1M DRAM
IC59
CONFIG FILTER ORIGINAL SURROUND (DSP) DELAY TIME
IC60
IC89
IC60,89
DTS/AC-3 DIGITAL SEL
DSP SELECTOR
IC59 INPUT
IC56 INPUT
IC52 INPUT
IC90
DTS FREQ DIVIDER
IC86
SRAM
IC87
ROM
IC52
DTS
IC55
1M DRAM
IC56
DOLBY DIGITAL (AC-3)
IC92
DIR-OUT DETECT
IC62
DIR DAC, A/D CONVERTER
IC71
DIGITAL REC OUT SEL
IC72
IC73
IC74
IC53
IC54
IC57
IC61
IC63
IC64
IC65
5V AVR
INVERTER
BUFFER
ANALOG IN(R)
ANALOG IN(L)
AC-3 ON CONDITION
DIGITAL(FL,FR)
DIGITAL(C,SW)
DIGITAL(SL,SR)
CD COAXIAL
VIDEO4 COAXIAL
VIDEO3 OPTICAL
VIDEO2 OPTICAL
DIGITAL OUT OPTICAL
DIGITAL IN
CH-SPACE
PLL-DO
PLL-CE
PLL-CLK
PLL-DATA
I²MUTE
-16V
+16V
T Lch
TGND
T Rch
STEREO
SD
S LEVEL
DE OUT
X11-C/7 -CN11
X25-B/7 -E18
X26
CN11
DGNB
+8V
AUX
-17V
+17V
GND
T Rch
TGND
T Lch
GND
R IN
GND
L IN
E3
E1
J11
A1
A2
A3
IN1
IN2
IN3
IN4
OUT
GND
VDD
STB
DIN1
DIN2
DIN3
DIN4
CD
DIN STB
VIDEO2
VIDEO3
VIDEO4
ELSE
+B
+8V
+17V
-17V
-16V
5.0V
3.3V
2.5V
1.5V
0V



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IC52 : DSPI56009FJ88
IC53 : TC7W04FU
IC54,72 : TC74HCU04AF
IC55,58 : LH64256CK-70
IC56 : DSPF56009FJ88
IC57,63,73 : LM2940CT-5.0
IC59 : DSPB56007FJ88
IC60,71,89 : TC74HC153AF
IC61,64,65 : TA7805S
IC62 : CS4226KQC
IC66 : UPD78058GC-A74
IC67 : UPD17215GT-737
IC68 : TDA7479D
IC69 : UPD78078GF-080
IC70 : S-806D-Z
IC74,76,78,80 : NJM4565M
IC85 : TC7S04F
IC86 : NJM2565J-15 or W24257AJ-15 or NJM2565J-12 or W24257AJ-12
IC87 : 27C1000MC-12
IC90 : TC74HC393AF
IC92 : TC74HC123AF

Q51,53,68 : UN5112 or DTA124EUA
Q52,54,63,67 : UN5212 or DTC124EUA
Q55 : 2SB1424(Q,R)
Q56,58,60,64 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q57,65 : UN5219 or DTC113ZUA
Q66 : 2SA1576A(R,S) or 2SA1586(Y,GR)

A1,2 : W02-1181-05
A3 : W02-1114-05

D51-53,62,72,75,76,109 : DA204U or 1SS302 or MA143A
D54,59,110 : DAP202U or 1SS300 or MA142WA
D58 : DAN202U or 1SS301
D60,61,63,108,111 : MA111
D64,65,103 : U1BC44
:

X25-A/7 -E2 5/6 I

KRF-V7771D (X08-2XXX-XX)

DESTINATION		UNIT No.	R695,712 916,917	R697	R698,699 914,919	R918	Ⓐ	ⒷⒸⒹⒺⒻ	CN19	W1	W2
COUNTRY	ABB										
JAPAN	J	850-01	YES	NO	NO	YES	YES	NO	YES		NO
PX	V1	852-91		YES		NO	YES		NO	NO	YES
GENERAL MARKET	M1	850-21				NO			YES		
CHINA	C1	903-00									
CHINA	C1	903-00									

KRF-V8881D (X08-2XXX-XX)

DESTINATION		UNIT No.	R695,697,914, 916,917	R698,699,712, 918,919	ⒶⒸⒻ	ⒷⒹⒺ	CN19	W1	W2
COUNTRY	ABB								
GENERAL MARKET	M2	850-22	YES	NO	YES	NO	YES	NO	YES
CHINA	C2	903-01							
CHINA	C2	903-01							

VR-2080 (X08-2850-10)

DESTINATION		UNIT No.	R695,697-699,712	R914,916-919	ⒶⒷⒸⒹⒺⒻ	CN19	W1,2
COUNTRY	ABB						
U.S.A.	K	850-10	YES	NO	NO	NO	NO
CANADA	P1						

VR-2090 (X08-2850-11)

DESTINATION		UNIT No.	R695,698,712 916,918	R697,699,914, 917,919	ⒶⒷⒸⒹⒺⒻ	CN19	W1,2
COUNTRY	ABB						
U.S.A.	K2	850-11	NO	YES	YES	YES	NO
CANADA	P2						

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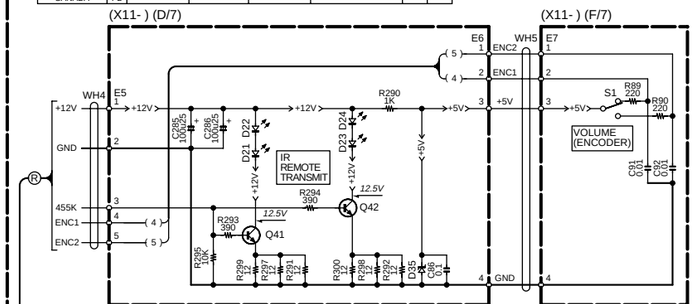
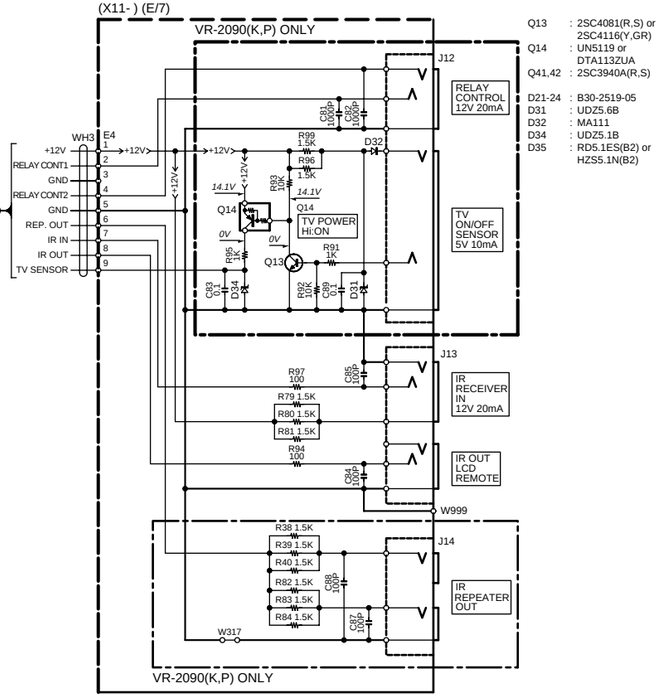
(X11-) (D/7)



(X11-) (E/7)

VR-2090(K,P) ONLY



Q13 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q14 : UN5119 or DTA113ZUA
Q41,42 : 2SC3940A(R,S)

D21-24 : B30-2519-05
D31 : UDZ5.6B
D32 : MA111
D34 : UDZ5.1B
D35 : RD5.1ES(B2) or HZS5.1N(B2)

X11-A/7 -E1 4/6 G
X25-A/7 -E5 5/6 J
X07-A/8 -E10 6/6 K
X25-C/7 -CN33 6/6 L

VR-2080/2090(K) (3/6)
KRF-V7771D/V8881D(M) (3/6)

Y05-3570-10

KRF-V7771D/V8881D/VR-2080/2090

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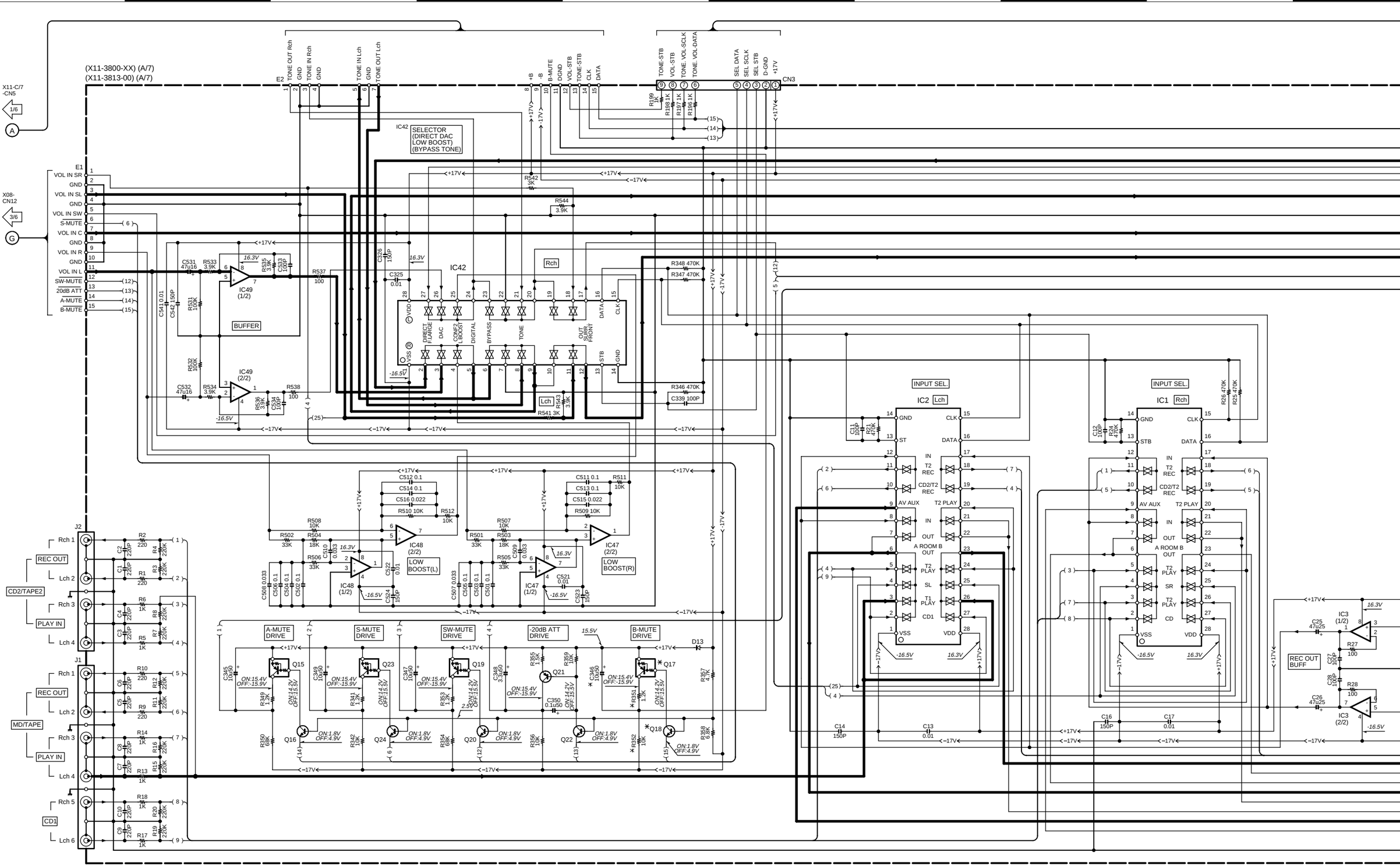

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VR-2080 (X11-3800-10)

DESTINATION		UNIT No.	R103,104, 153,154,203	R351,352,373,374, 383,393-395	R375, 376,385	C346,365,366, 375,387,388,393	Q17, 18
COUNTRY	ABB.						
U.S.A.	K	00-10	2.7K	NO	100	NO	NO
CANADA	P1						

KRF-V7771D (X11-38XX-XX)

DESTINATION		UNIT No.	R103,104, 153,154,203	R351, 352	R373,374, 383,393-395	R375, 376,385	C346	C365,366, 375,387,388,393	Q17, 18
COUNTRY	ABB.								
JAPAN	J	00-01	3.3K	NO	YES	3.3K	NO	YES	NO
PX	Y1								
GENERAL MARKET	M1	00-21	2.7K		NO	100		NO	
CHINA	C1								
CHINA	C1	13-00							

VR-2090 (X11-3800-11)

DESTINATION		UNIT No.	R103,104, 153,154,203	R351, 352	R373,374, 383,393-395	R375, 376,385	C346	C365,366,375, 387,388,393	Q17, 18
COUNTRY	ABB.								
U.S.A.	K2	00-11	2.7K	YES	NO	100	YES	NO	YES
CANADA	P2								

KRF-V8881D (X11-38XX-XX)

DESTINATION		UNIT No.	R103,104, 153,154,203	R351,352,373,374, 383,393-395	R375, 376,385	C346,365,366, 375,387,388,393	Q17, 18
COUNTRY	ABB.						
GENERAL MARKET	M2	00-21	2.7K	NO	100	NO	NO
CHINA	C2						
CHINA	C2	13-00					

IC1,2 : TC9164AF
IC3,22,24,26,30,31,51-53 : NJM4565D
IC21 : TC9412AP
IC23,25 : TC9413P
IC42 : TC9163AF
IC47-49 : NJM4565L

Q1-12,33-36 : 2SC4231(B)
Q15,17,19,23 : UN5119 or DTA113ZUA
Q16,18,20,22,24 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q21 : 2SA1576A(R,S) or 2SA1586(Y,GR)

D2 : DA204U or 1SS302
D13 : MA111
D14 : RD11ES(B) or HZS11N(B)

X25-A/7 -CN23 5/6 M

X25-A/7 -CN24 5/6 N

X25-A/7 -CN21 5/6

CN4
1 -17V
2 NC
3 NC
4 +17V
5 GND
6 VOL OUT C
7 VOL OUT SL
8 VOL OUT SR
9 VOL OUT L
10 GND
11 VOL OUT R
12 GND
13 NC
14 NC
15 GND
16 DIRECT Lch
17 GND
18 DIRECT Rch

CN1
1 +17V
2 -17V
3 GND
4 VIDEO2 REC Lch
5 VIDEO2 REC Rch
6 VIDEO1 REC Rch
7 VIDEO1 REC Lch
8 ROOM B SEL Lch
9 ROOM B SEL Rch
10 ROOM A SEL Rch
11 ROOM A SEL Lch
12 TAPE2 MONITOR Rch
13 TAPE2 MONITOR Lch
14 AUX Lch
15 AUX Rch

J6
Rch 1 SURROUND
Lch 2
3 CENTER
PRE OUT
4 SUB WOOFER

IC21 E-VOL. LOUDNESS
IC23 E-VOL.
IC25 E-VOL.
IC51 (1/2), IC51 (2/2), IC52 (1/2), IC52 (2/2), IC53 (1/2), IC53 (2/2)
IC22 (1/2), IC22 (2/2), IC24 (1/2), IC24 (2/2), IC26 (1/2), IC26 (2/2)
IC30 (1/2), IC30 (2/2), IC31 (1/2), IC31 (2/2)

FLch, FRch, SLch, SRch, Cch, SWch
-20dB ATT
AMP
BUFFER
MUTE
SURR. MUTE
A MUTE
SW MUTE
ON:0.7V OFF:-15.8V

VR-2080/2090(K) (4/6)
KRF-V7771D/V8881D(M) (4/6)

Y05-3570-10

KRF-V7771D/V8881D/VR-2080/2090

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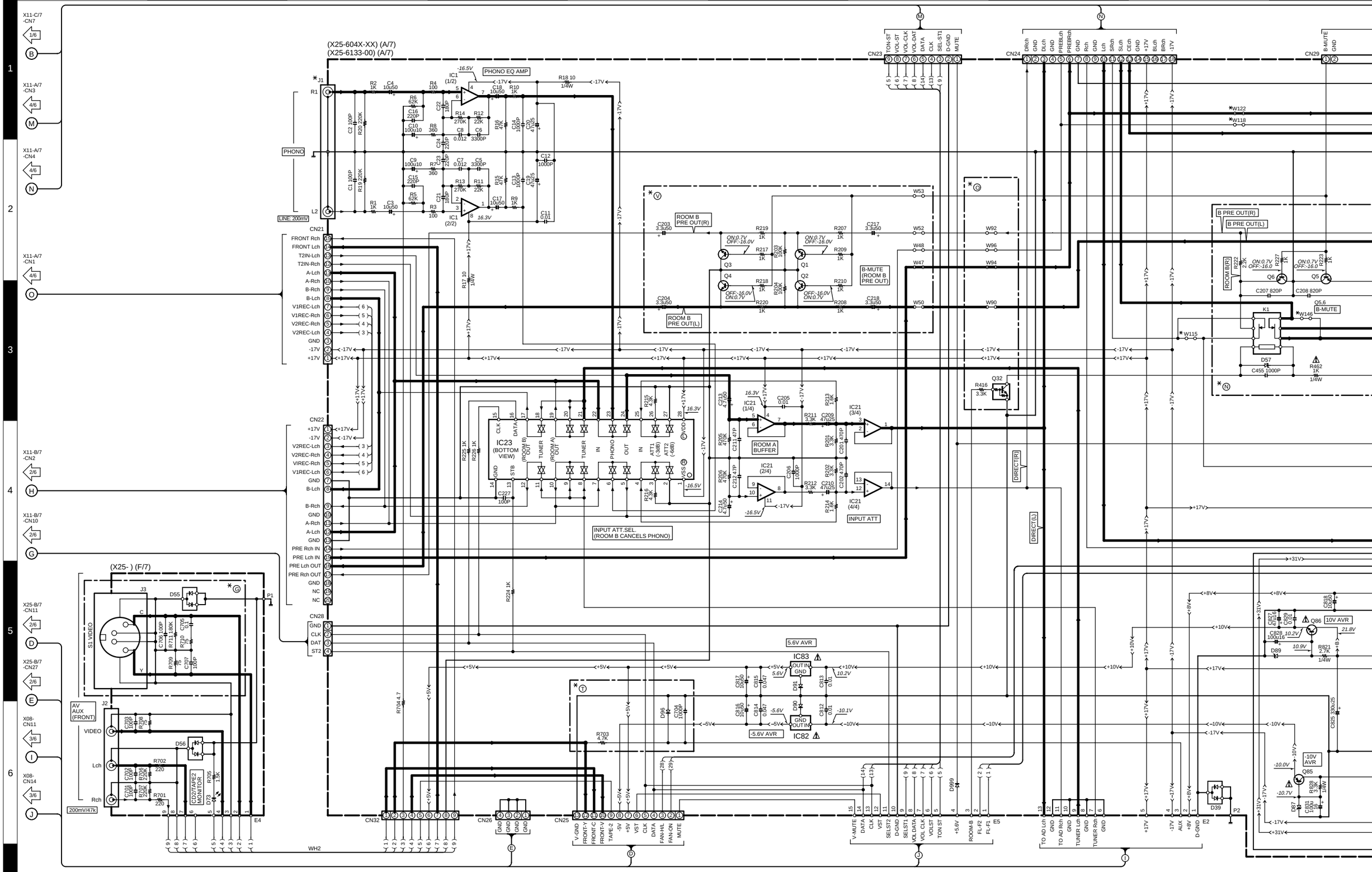
CW CX CY CZ DA DB DC DD DE DF

1 2 3 4 5 6 7



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IC1	: NJM4580ED
IC21	: NJM2058D
IC23	: TC9162AF
IC81	: NJM4558D
IC82	: TA79005S or uPC7905AHF
IC83	: TA7805S or uPC7805AHF
IC84	: SI-3082V
Q1-6,17	: 2SC4213(B)
Q32	: UN5219 or DTC113ZUA
Q81	: 2SC2458(Y,GR) or 2SC3311A(Q,R)
Q82	: 2SA1048(Y,GR) or 2SA1309A(Q,R)
Q83,85	: 2SB1370
Q84,86	: 2SD2061
Q301-304,351-354,401,402,	: 2SA992(F,E)
Q305-308,355-358,403,404	: 2SC2631(R,S)
Q309,310,359,360,405	: 2SA1123(R,S)
Q311,312,361,362,406	: 2SA1586(Y,GR)
Q451	: 2SA1535(R,S)
Q453,456	: UN5212 or DTC124EUA
Q454	: 2SA1611(M5,M6)
Q457	: 2SC4177(L5,L6)
Q999	: 2SC3244
D31-38,41,42	: 1SS133 or HSS104
D39,55,56	: DA204K
D43,77,85	: RD5.1JS(B2) or HZS5.1S(B2)
D44,45,58-60,74,75, 78,90,91,96,999	: MA111
D57	: RD24ES(B) or HZS24N(B)
D48,49	: ✳
D73	: B30-2493-05
D81,82	: 1B4B41
D83,84,998	: RD15ES(B) or HZS15N(B)
D86	: S5688B
D87,89	: RD11JS(B) or HZS11N(B)
D88	: D3SBA20F03

VR-2080 (X25-6040-10)

DESTINATION		UNIT No.	Ⓒ Ⓝ Ⓣ Ⓥ	F1,4	F2,3	D48	D49	R490	W118, 122	W115, 146
COUNTRY	ABB.									
U.S.A.	K	040-10	NO	F50-0067-05	F50-0068-05	RD18ES(B) or HZS18N(B)	RD10JS(B2) or HZS10N(B2)	18K	NO	YES
CANADA	P1									

KRF-V7771D (X25-6XXX-XX)

DESTINATION		UNIT No.	Ⓒ Ⓣ	Ⓝ Ⓤ Ⓥ	F1,4	F2,3	D48	D49	R490	W118, 122	W115, 146
COUNTRY	ABB.										
JAPAN	J	040-01	YES	NO	F50-0067-05	F50-0068-05	RD13ES(B) or HZS13N(B)	RD11ES(B) or HZS11N(B)	24K	NO	YES
PX	Y1	042-91	NO								
GENERAL MARKET	M1	040-21	YES		F05-1222-05	F05-1623-05	RD18ES(B) or HZS18N(B)	RD10JS(B2) or HZS10N(B2)	18K		
CHINA	C1										
CHINA	C1	133-00									

VR-2090 (X25-6040-11)

DESTINATION		UNIT No.	Ⓒ Ⓝ Ⓤ Ⓣ Ⓥ	F1,4	F2,3	D48	D49	R490	W118, 122	W115, 146
COUNTRY	ABB.									
U.S.A.	K2	040-11	YES	F50-0067-05	F50-0068-05	RD18ES(B) or HZS18N(B)	RD10JS(B2) or HZS10N(B2)	18K	YES	NO
CANADA	P2									

KRF-V8881D (X25-6XXX-XX)

DESTINATION		UNIT No.	Ⓒ Ⓣ	Ⓝ Ⓒ Ⓥ	F1,4	F2,3	D48	D49	R490	W118, 122	W115, 146
COUNTRY	ABB.										
GENERAL MARKET	M2	040-22	YES	NO	F05-1222-05	F05-1623-05	RD16ES(B2) or HZS16N(B2)	RD15ES(B2) or HZS15N(B2)	22K	NO	YES
CHINA	C2										
CHINA	C2	133-01									

VR-2080/2090(K) (5/6)
KRF-V7771D/V8881D(M) (5/6)

Y05-3570-10

KRF-V7771D/V8881D/VR-2080/2090

KENWOOD

DQ | DR | DS | DT | DU | DV | DW | DX | DY | DZ

1 2 3 4 5 6 7

(X07-294X-XX) (A/8)
(X07-2983-00) (A/8)

X25-A/7 -E7 5/6

CN1 Cch SRch SLch Lch

IDLE TEST PIN

Q1-10 FINAL TR.

Q11-14,51-54,101,102 CURRENT LIMIT

IDLE FLch

IDLE FRch

IDLE SLch BLSP

IDLE SRch BRSP

IDLE Cch

CN10 -VC +VC GND NFB BIAS+ BIAS- Cch SLch SRch Lch Rch FAN +B RELAY CONT. SECOND CS POWER FAST/SLOW FAN CONT. ON/OFF

X25-A/7 -CN51 5/6

X08-CN15 3/6

X08-CN13 3/6

PROTECTION

FAN ON/OFF

FAN DRIVE

COOLING FAN

A SP. ON/OFF

B SP. ON/OFF

SURROUND SP. ON/OFF

C SP. ON/OFF

FRONT SP.

SURROUND SP.

CENTER SP.

PHONES

TEMP. SW (105°C)

TEMP. SW (65°C)

TEMP. LEVEL DETECT

SUR.SP. ON/OFF DRIVE

B SP. ON/OFF DRIVE

A SP. ON/OFF DRIVE

D251.252 CONNECT ON/OFF DRIVE

POWER ON/OFF DRIVE

(X25-) (H/7)

(X07-) (B/8)

USED (J,K,P,C) TYPE

USED (M,Y) TYPE

(X07-) (E/8)

(X07-) (C/8)

(X11-) (G/7)

(X07-) (G/8)

(X07-) (H/8)

15V AVR

5.6V AVR

-35 AVR

IC31

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
-B LINE

VR-2080 (X07-2940-10)

DESTINATION		UNIT No.	C5-8,55-58,103, 104,256-258,283	C9,10,59, 60,105	C251, 252	R251	R281	Q154	D252,253, 312	D311	K5	F5	F6	CN23,24	W183, 189	W192	WH14,15	J11	T1	Ⓐ
COUNTRY	ABB																			
U.S.A.	K	40-10	NO	YES	8200u73	NO	YES	NO	NO	YES	NO	8A 125V	NO	NO	YES	NO	NO	E03-0148-05	L07-2320-05	NO
CANADA	P1																			

VR-2090 (X07-2940-10)

DESTINATION		UNIT No.	C5-8,55-58,103, 104,256-258,283	C9,10,59, 60,105	C251, 252	R251	R281	Q154	D252,253, 312	D311	K5	F5	F6	CN23,24	W183, 189	W192	WH14,15	J11	T1	Ⓐ
COUNTRY	ABB																			
U.S.A.	K2	40-10	NO	YES	8200u73	NO	YES	NO	NO	YES	NO	8A 125V	NO	NO	YES	NO	NO	E03-0148-05	L07-2320-05	NO
CANADA	P2																			

KRF-V8881D (X07-29XX-XX)

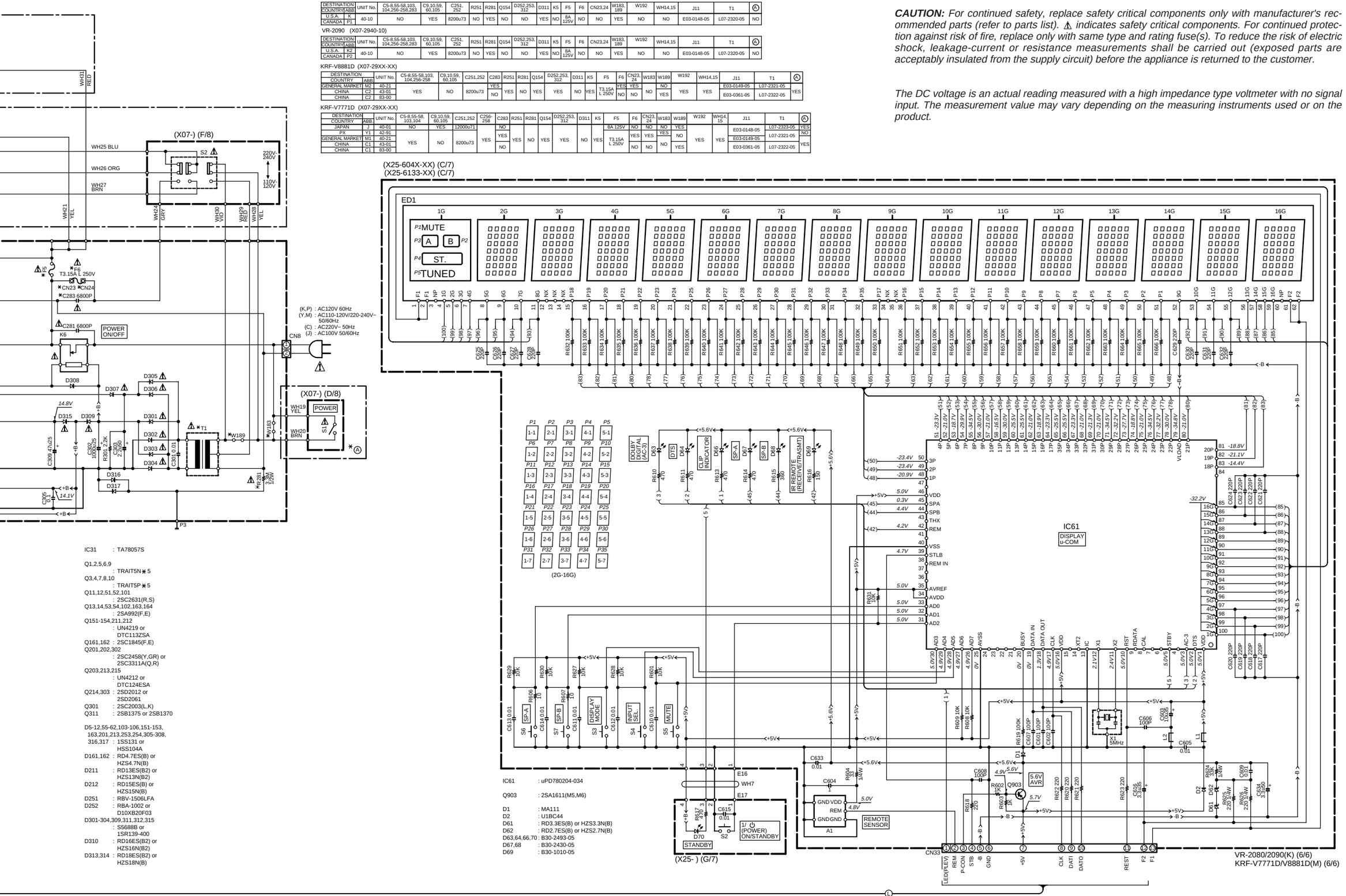
DESTINATION		UNIT No.	C5-8,55-58,103, 104,256-258	C9,10,59, 60,105	C251,252	C283	R251	R281	Q154	D252,253, 312	D311	K5	F5	F6	CN23, 24	W183	W189	W192	WH14,15	J11	T1	Ⓐ
COUNTRY	ABB																					
GENERAL MARKET	M2	40-21	YES	NO	8200u73	YES	YES	NO	YES	YES	NO	YES	T3.15A L 250V	YES	YES	NO	YES	YES	YES	E03-0149-05	L07-2321-05	YES
CHINA	C2	43-01				NO								NO	NO	YES				E03-0361-05	L07-2322-05	
CHINA	C2	83-00																				

KRF-V7771D (X07-29XX-XX)

DESTINATION		UNIT No.	C5-8,55-58, 103,104	C9,10,59, 60,105	C251,252	C256-258	C283	R251	R281	Q154	D252,253, 312	D311	K5	F5	F6	CN23, 24	W183	W189	W192	WH14, 15	J11	T1	Ⓐ
COUNTRY	ABB																						
JAPAN	J	40-01	NO	YES	12000u71		NO							8A 125V	NO	NO	YES				E03-0148-05	L07-2323-05	YES
PX	Y1	42-91					YES								YES	YES	NO					L07-2321-05	NO
GENERAL MARKET	M1	40-21	YES	NO	8200u73	YES		YES	NO	YES	YES	NO	YES	T3.15A L 250V				YES	YES	YES	E03-0149-05		
CHINA	C1	43-01					NO								NO	NO	NO				E03-0361-05	L07-2322-05	YES
CHINA	C1	83-00															YES						

CAUTION: *For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.*

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



IC31 : TA78057S

Q1,2,5,6,9
: TRAIT5N ✱5
Q3,4,7,8,10
: TRAIT5P ✱5
Q11,12,51,52,101
: 2SC2631(R,S)
Q13,14,53,54,102,163,164
: 2SA992(F,E)
Q151-154,211,212
: UN4219 or DTC113ZSA
Q161,162 : 2SC1845(F,E)
Q201,202,302
: 2SC2458(Y,GR) or 2SC3311A(Q,R)
Q203,213,215
: UN4212 or DTC124ESA
Q214,303 : 2SD2012 or 2SD2061
Q301 : 2SC2003(L,K)
Q311 : 2SB1375 or 2SB1370

D5-12,55-62,103-106,151-153, 163,201,213,253,254,305-308, 316,317 : 1SS131 or HSS104A
D161,162 : RD4.7ES(B) or HZS4.7N(B)
D211 : RD13ES(B2) or HZS13N(B2)
D212 : RD15ES(B) or HZS15N(B)
D251 : RBV-1506LFA
D252 : RBA-1002 or D10XB20F03
D301-304,309,311,312,315
: S5688B or 1SR139-400
D310 : RD16ES(B2) or HZS16N(B2)
D313,314 : RD18ES(B2) or HZS18N(B)

IC61 : uPD780204-034

Q903 : 2SA1611(M5,M6)

D1 : MA111
D2 : U1BC44
D61 : RD3.3ES(B) or HZS3.3N(B)
D62 : RD2.7ES(B) or HZS2.7N(B)
D63,64,66,70 : B30-2493-05
D67,68 : B30-2430-05
D69 : B30-1010-05

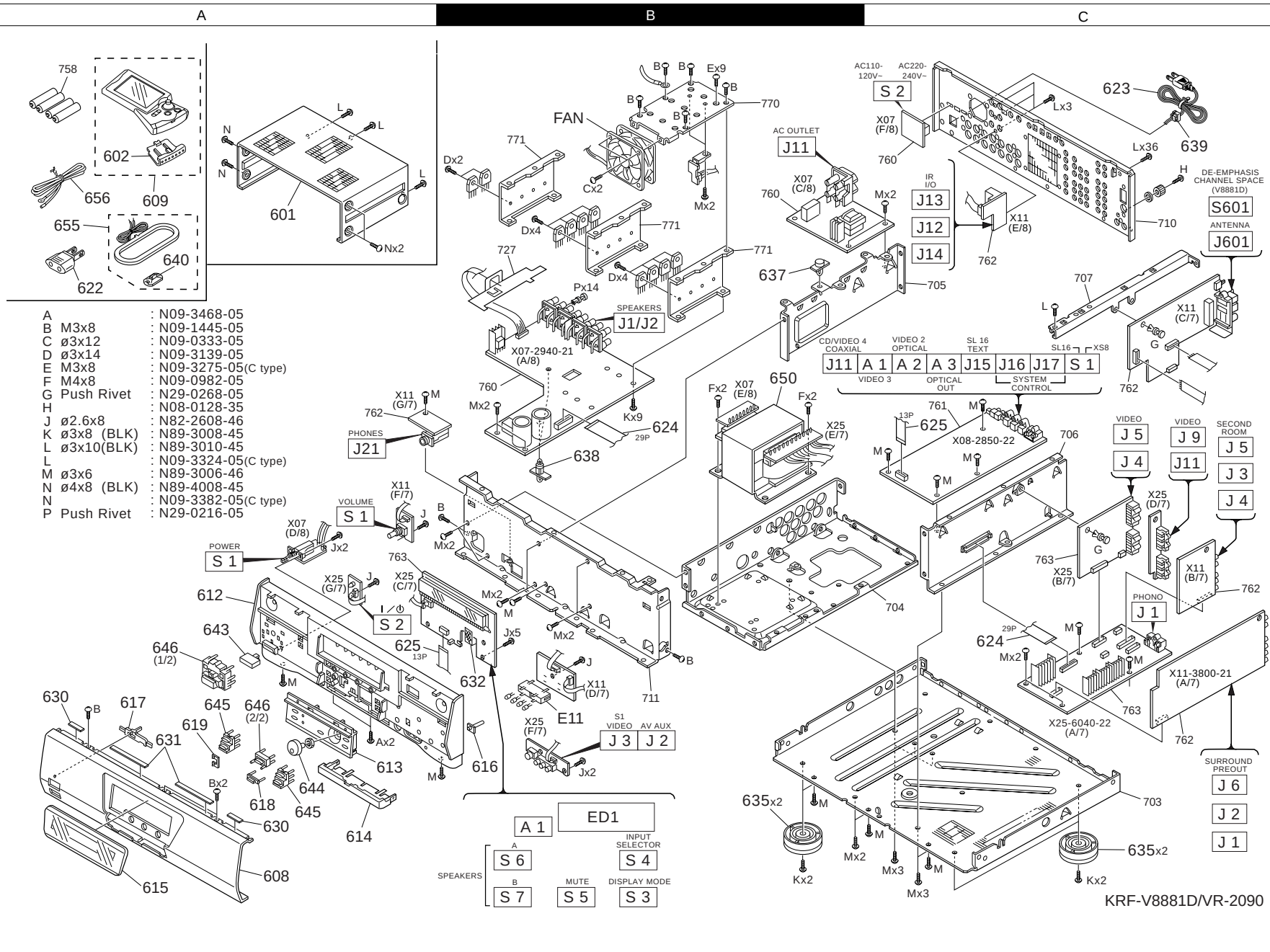
Y05-3570-10

KRF-V7771D/V8881D/VR-2080/2090

KENWOOD

EXPLODED VIEW(UNIT)

Parts with exploded numbers larger than 700 are not supplied.



A		: N09-3468-05
B	M3x8	: N09-1445-05
C	ø3x12	: N09-0333-05
D	ø3x14	: N09-3139-05
E	M3x8	: N09-3275-05(C type)
F	M4x8	: N09-0982-05
G	Push Rivet	: N29-0268-05
H		: N08-0128-35
J	ø2.6x8	: N82-2608-46
K	ø3x8 (BLK)	: N89-3008-45
L	ø3x10(BLK)	: N89-3010-45
L		: N09-3324-05(C type)
M	ø3x6	: N89-3006-46
N	ø4x8 (BLK)	: N89-4008-45
N		: N09-3382-05(C type)
P	Push Rivet	: N29-0216-05

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Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
KRF-V7771D/V8881D/VR-2080/2090						
601	1A	✻	A01-3525-11	METALLIC CABINET	KP1Y1	
601	1A	✻	A01-3525-11	METALLIC CABINET	K2P2M2	
601	1A	✻	A01-3525-11	METALLIC CABINET	M1	
601	1A	✻	A01-3527-11	METALLIC CABINET	C1C2	
602	1A		A09-0378-08	BATTERY COVER		
608	2A	✻	A60-1310-12	PANEL	K2P2	
608	2A	✻	A60-1311-22	PANEL	M2	
608	2A	✻	A60-1312-22	PANEL	C2	
608	2A	✻	A60-1326-12	PANEL	KP1	
608	2A	✻	A60-1327-22	PANEL	M1	
608	2A	✻	A60-1329-12	PANEL	C1	
608	2A	✻	A60-1400-12	PANEL	Y1	
609	1A	✻	A70-1191-05	REMOTE CONTROLLER ASSY		
612	2A	✻	B01-0533-21	PANEL ESCUTCHEON	K2P2M2	
612	2A	✻	B01-0533-21	PANEL ESCUTCHEON	M1	
612	2A	✻	B01-0534-21	PANEL ESCUTCHEON	C1	
612	2A	✻	B01-0534-21	PANEL ESCUTCHEON	C1C2	
612	2A	✻	B01-0536-11	PANEL ESCUTCHEON	KP1Y1	
613	2A	✻	B07-2396-12	ESCUTCHEON	KP1Y1	
613	2A	✻	B07-2396-12	ESCUTCHEON	K2P2M2	
613	2A	✻	B07-2396-12	ESCUTCHEON	M1	
613	2A	✻	B07-2397-12	ESCUTCHEON	C1C2	
614	2A	✻	B10-2418-03	FRONT GLASS		
615	2A	✻	B10-2451-03	FRONT GLASS		
616	2B	✻	B12-0303-24	INDICATOR		
617	2A	✻	B12-0326-04	INDICATOR		
618	2A	✻	B12-0331-04	INDICATOR		
619	2A	✻	B12-0333-04	INDICATOR		
-			B46-0197-00	QUESTIONNAIRE CARD	KK2	
-			B46-0326-03	WARRANTY CARD	C1C2	
-			B46-0330-03	WARRANTY CARD	KK2Y1	
-			B46-0336-03	WARRANTY CARD	P1P2	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y1	
-			B58-0964-13	CAUTION CARD	KK2Y1	
-			B58-0966-13	CAUTION CARD	M1M2	
-			B58-0967-03	CAUTION CARD	P1P2	
-			B58-1546-03	CAUTION CARD	C1C2	
-			B59-1104-00	SERVICE DIRECTORY	Y1	
-		✻	B59-1200-00	SUB-INSTRUCTION MANUAL	KP1Y1	
-		✻	B59-1200-00	SUB-INSTRUCTION MANUAL	K2P2	
-		✻	B59-1401-00	SUB-INSTRUCTION MANUAL	M1C1	
-		✻	B59-1401-00	SUB-INSTRUCTION MANUAL	M2C2	
-		✻	B59-1404-03	CATALOG	KP1	
-		✻	B59-1404-03	CATALOG	K2P2	
-		✻	B59-1405-00	GUIDE BOOK	KK2	
-		✻	B60-3576-00	INSTRUCTION MANUAL(ENG)		
-		✻	B60-3579-00	INSTRUCTION MANUAL(FRN)	P1P2	
-		✻	B60-3581-00	INSTRUCTION MANUAL(CHINA)	C1C2	
-		✻	B60-3755-00	INSTRUCTION MANUAL(SPANISH)	M1M2	
-		✻	B60-3756-00	INSTRUCTION MANUAL(TAIWANESE)	M1M2	
⚠ 622	1A		E03-0115-05	AC PLUG ADAPTER	M1M2	
⚠ 623	1C		E30-2787-05	AC POWER CORD	KP1	

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❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠ 623	1C		E30-2787-05	AC POWER CORD	K2P2	
⚠ 623	1C		E30-2788-05	AC POWER CORD	M1M2	
⚠ 623	1C		E30-2789-05	AC POWER CORD	Y1	
⚠ 623	1C		E30-2867-05	AC POWER CORD	C1C2	
624	1B,2C	✻	E35-2056-05	FLAT CABLE 29P		
625	2A,1C	✻	E35-2057-05	FLAT CABLE 13P		
630	2A		G11-0155-14	SOFT TAPE (40X9X2)		
631	2A		G11-0185-04	SOFT TAPE (120X5X2)		
632	2B		G11-2405-04	SOFT TAPE		
-		✻	H10-7416-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7417-12	POLYSTYRENE FOAMED FIXTURE		
-		✻	H11-0094-04	POLYSTYRENE FOAMED BOARD		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0661-04	PROTECTION BAG		
-		✻	H50-2709-04	ITEM CARTON CASE	K2P2	
-		✻	H50-2711-04	ITEM CARTON CASE	M2	
-		✻	H50-2712-04	ITEM CARTON CASE	C2	
-		✻	H50-2736-04	ITEM CARTON CASE	KP1	
-		✻	H50-2737-04	ITEM CARTON CASE	Y1	
-		✻	H50-2738-04	ITEM CARTON CASE	M1	
-		✻	H50-2739-04	ITEM CARTON CASE	C1	
635	2B,2C		J02-1170-03	FOOT	C1C2	
635	2B,2C		J02-1404-13	FOOT (D=46,H=18.5,T)	KP1Y1	
635	2B,2C	✻	J02-1404-13	FOOT (D=46,H=18.5,T)	K2P2M2	
635	2B,2C		J02-1404-13	FOOT (D=46,H=18.5,T)	M1	
637	1B		J19-3300-05	UNIT HOLDER		
638	1B		J19-3324-15	UNIT HOLDER		
⚠ 639	1C		J42-0083-05	POWER CORD BUSHING		
640	1A		J19-3645-05	LOOP ANTENNA STAND		
-			J61-0098-05	WIRE BAND		
643	2A	✻	K27-2248-04	KNOB (BUTTON)	M1M2	
643	2A	✻	K27-2260-04	KNOB (BUTTON)	C1C2	
644	2A	✻	K29-6852-04	KNOB	KP1Y1	
644	2A	✻	K29-6852-04	KNOB	K2P2M2	
644	2A	✻	K29-6852-04	KNOB	M1	
644	2A	✻	K29-6853-04	KNOB	C1C2	
645	2A	✻	K29-6855-03	KNOB	KP1Y1	
645	2A	✻	K29-6855-03	KNOB	K2P2M2	
645	2A	✻	K29-6855-03	KNOB	M1	
645	2A	✻	K29-6856-03	KNOB	C1C2	
646	2A	✻	K29-6858-12	KNOB	KP1Y1	
646	2A	✻	K29-6858-12	KNOB	K2P2M2	
646	2A	✻	K29-6858-12	KNOB	M1	
646	2A	✻	K29-6859-12	KNOB	C2	
⚠ 650	1B	✻	L07-2463-15	POWER TRANSFORMER	KP1	
⚠ 650	1B	✻	L07-2463-15	POWER TRANSFORMER	K2P2	
⚠ 650	1B	✻	L07-2464-15	POWER TRANSFORMER	M2	
⚠ 650	1B	✻	L07-2465-15	POWER TRANSFORMER	C2	
⚠ 650	1B	✻	L07-2511-05	POWER TRANSFORMER	Y1	
⚠ 650	1B	✻	L07-2513-15	POWER TRANSFORMER	M1	
⚠ 650	1B	✻	L07-2514-05	POWER TRANSFORMER	C1	
655	1A		T90-0833-05	LOOP ANTENNA		
656	1A		T90-0835-05	LEAD WIRE ANTENNA		

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❸

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
POWER (X07-2940-10/X07-2983-00)								
C5 -8			CF92FV1H224J	MF-C	0.22UF	J	M2C2	
C5 -8			CF92FV1H224J	MF-C	0.22UF	J	Y1M1C1	
C9 ,10			CF92FV1H104J	MF-C	0.10UF	J	KP1	
C9 ,10			CF92FV1H104J	MF-C	0.10UF	J	K2P2	
C11 ,12			CQ93FMG1H472J	MYLAR	4700PF	J		
C13 ,14			CK45FF1H103ZMU	CERAMIC	0.010UF	Z		
C15 -22			CE04KW2A2R2M	ELECTRO	2.2UF	100WV		
C23 ,24			CQ93FMG1H472J	MYLAR	4700PF	J		
C55 -58			CF92FV1H224J	MF-C	0.22UF	J	M2C2	
C55 -58			CF92FV1H224J	MF-C	0.22UF	J	Y1M1C1	
C59 ,60			CF92FV1H104J	MF-C	0.10UF	J	KP1	
C59 ,60			CF92FV1H104J	MF-C	0.10UF	J	K2P2	
C61 ,62			CQ93FMG1H472J	MYLAR	4700PF	J		
C63 ,64			CK45FF1H103ZMU	CERAMIC	0.010UF	Z		
C103,104			CF92FV1H224J	MF-C	0.22UF	J	M2C2	
C103,104			CF92FV1H224J	MF-C	0.22UF	J	Y1M1C1	
C105			CF92FV1H104J	MF-C	0.10UF	J	KP1	
C105			CF92FV1H104J	MF-C	0.10UF	J	K2P2	
C106			CQ93FMG1H472J	MYLAR	4700PF	J		
C107			CK45FF1H103ZMU	CERAMIC	0.010UF	Z		
C108-111			CE04KW2A2R2M	ELECTRO	2.2UF	100WV		
C161			CE04KW1A101M	ELECTRO	100UF	10WV		
C162			CE04KW1H100M	ELECTRO	10UF	50WV		
C201			CE04KW1E470M	ELECTRO	47UF	25WV		
C211			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C212			CE04KW1V220M	ELECTRO	22UF	35WV		
C213			CE04KW1V470M	ELECTRO	47UF	35WV		
C251,252		✻	C90-3751-05	ELECTRO	8200UF	73WV		
C253-255			CK45FE2H103PMM	CERAMIC	0.010UF	P		
C256-258			CK45FE2H103PMM	CERAMIC	0.010UF	P	M2C2	
C256-258			CK45FE2H103PMM	CERAMIC	0.010UF	P	Y1M1C1	
⚠ C281,282			C91-1488-05	MF	6800PF	250VAC		
⚠ C283			C91-1488-05	MF	6800PF	250VAC	Y1M1M2	
C301			CK45FF1H103ZMU	CERAMIC	0.010UF	Z		
C302			CE04KW1E102M	ELECTRO	1000UF	25WV		
C303			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C305,306			CF92FV1H104J	MF-C	0.10UF	J		
C307			CE04KW1A470M	ELECTRO	47UF	10WV		
C308			CE04KW1H220M	ELECTRO	22UF	50WV		
C309			CE04KW1E470M	ELECTRO	47UF	25WV		
C311			CE04KW2A470M	ELECTRO	47UF	100WV		
C312,313			CE04KW1H100M	ELECTRO	10UF	50WV		
CN1		✻	E40-4879-05	PIN ASSY				
CN6			E40-4293-05	FLAT CABLE CONNECTOR				
CN7			E40-3247-05	PIN ASSY				
CN8			E40-4245-05	PIN ASSY				
CN10			E40-4916-05	FLAT CABLE CONNECTOR				
CN11			E40-4296-05	FLAT CABLE CONNECTOR				
J1	1B	✻	E70-0095-05	SCREW TERMINAL BOARD 8P				
J2	1B	✻	E70-0096-05	SCREW TERMINAL BOARD 6P				
⚠ J11	1B		E03-0148-05	AC OUTLET			KP1Y1	
⚠ J11	1B		E03-0148-05	AC OUTLET			K2P2	

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❹

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
⚠ J11	1B		E03-0149-05	AC OUTLET				M1M2	
⚠ J11	1B		E03-0361-05	AC OUTLET				C1C2	
P1			E29-1625-04	LEAD PLATE					
⚠ F5			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			C1C2	
⚠ F5			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			Y1M1M2	
⚠ F5			F50-0077-05	FUSE(5X20)				KP1	
⚠ F5			F50-0077-05	FUSE(5X20)				K2P2	
⚠ F6			F05-3121-05	FUSE (SEMKO)	(250V T3.15AL)			Y1M1M2	
FAN	1B	✻	F09-0139-05	FAN					
CN21,22			J13-0075-05	FUSE CLIP					
CN23,24			J13-0075-05	FUSE CLIP				Y1M1M2	
E21			J11-0808-05	WIRE CLAMPER					
E22 ,23		✻	J11-0831-05	WIRE CLAMPER					
⚠ T1			L07-2320-05	POWER TRANSFORMER				KP1	
⚠ T1			L07-2320-05	POWER TRANSFORMER				K2P2	
⚠ T1			L07-2321-05	POWER TRANSFORMER				Y1M1M2	
⚠ T1			L07-2322-05	POWER TRANSFORMER				C1C2	
R1 -4			RD14NB2E470J	RD	47	J	1/4W		
R5 ,6			RD14NB2E151J	RD	150	J	1/4W		
R9 ,10			RS14KB3A2R7JFR	FL-PROOF RS	2.7	J	1W		
R11 -14			RD14NB2E332J	RD	3.3K	J	1/4W		
R27 -30			RD14NB2E101J	RD	100	J	1/4W		
R41 ,42			RS14KB3D471JFR	FL-PROOF RS	470	J	2W		
R51 -54			RD14NB2E470J	RD	47	J	1/4W		
R55 ,56			RD14NB2E151J	RD	150	J	1/4W		
R59 ,60			RS14KB3A2R7JFR	FL-PROOF RS	2.7	J	1W		
R61 -64			RD14NB2E332J	RD	3.3K	J	1/4W		
R77 -80			RD14NB2E101J	RD	100	J	1/4W		
R101,102			RD14NB2E470J	RD	47	J	1/4W		
R103			RD14NB2E151J	RD	150	J	1/4W		
R105			RS14KB3A2R7JFR	FL-PROOF RS	2.7	J	1W		
R106,107			RD14NB2E332J	RD	3.3K	J	1/4W		
R114,115			RD14NB2E101J	RD	100	J	1/4W		
⚠ R151,152			RD14NB2E271J	RD	270	J	1/4W		
⚠ R153		✻	RS14KB3A121JFR	FL-PROOF RS	120	J	1W		
R214,215			RD14NB2E102J	RD	1.0K	J	1/4W		
⚠ R251			RS14KB3A471JFR	FL-PROOF RS	470	J	1W	M2C2	
⚠ R251			RS14KB3A471JFR	FL-PROOF RS	470	J	1W	Y1M1C1	
⚠ R253,254			RD14NB2E3R9J	RD	3.9	J	1/4W		
⚠ R281			R92-1844-05	CARBON	3.3M	J	1/2W	KP1	
⚠ R281			R92-1844-05	CARBON	3.3M	J	1/2W	K2P2	
R305			RD14NB2E332J	RD	3.3K	J	1/4W		
⚠ R310			RD14NB2E1R0J	RD	1	J	1/4W		
R311			RD14NB2E682J	RD	6.8K	J	1/4W		
VR1 -5			R32-0030-05	SEMI FIXED VARIABLE RESISTOR					
K1 -4			S76-0076-05	MAGNETIC RELAY					
⚠ K5			S76-0063-05	MAGNETIC RELAY				M2C2	
⚠ K5			S76-0063-05	MAGNETIC RELAY				Y1M1C1	
⚠ K6		✻	S76-0077-05	MAGNETIC RELAY					
⚠ S1	2C		S40-1153-05	PUSH SWITCH POWER				M1C1	
⚠ S1	2C		S40-1153-05	PUSH SWITCH POWER				M2C2	
⚠ S2	1C		S31-3010-05	SLIDE SWITCH VOLTAGE				Y1M1M2	
TS1			S79-0007-05	THERMAL SWITCH					

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5

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
TS2		✻	S79-0028-05	THERMAL SWITCH		
D5 -12			HSS104A	DIODE		
D5 -12			1SS131	DIODE		
D55 -62			HSS104A	DIODE		
D55 -62			1SS131	DIODE		
D103-106			HSS104A	DIODE		
D103-106			1SS131	DIODE		
D151-153			HSS104A	DIODE		
D151-153			1SS131	DIODE		
D161,162			HZS4.7N(B)	ZENER DIODE		
D161,162			RD4.7ES(B)	ZENER DIODE		
D163			HSS104A	DIODE		
D163			1SS131	DIODE		
D201			HSS104A	DIODE		
D201			1SS131	DIODE		
D211			HZS13N(B2)	ZENER DIODE		
D211			RD13ES(B2)	ZENER DIODE		
D212			HZS15N(B)	ZENER DIODE		
D212			RD15ES(B)	ZENER DIODE		
D213			HSS104A	DIODE		
D213			1SS131	DIODE		
⚠ D251		✻	RBV-1506LFA	DIODE		
⚠ D252		✻	D10XB20F03	DIODE	M2C2	
⚠ D252		✻	D10XB20F03	DIODE	Y1M1C1	
⚠ D252		✻	RBA-1002	DIODE	M2C2	
⚠ D252		✻	RBA-1002	DIODE	Y1M1C1	
D253			HSS104A	DIODE	M2C2	
D253			HSS104A	DIODE	Y1M1C1	
D253			1SS131	DIODE	M2C2	
D253			1SS131	DIODE	Y1M1C1	
D254			HSS104A	DIODE	KP1	
D254			1SS131	DIODE	KP1	
⚠ D301-304			S5688B	DIODE		
⚠ D301-304			1SR139-400	DIODE		
⚠ D305-308			HSS104A	DIODE		
⚠ D305-308			1SS131	DIODE		
⚠ D309			S5688B	DIODE		
⚠ D309			1SR139-400	DIODE		
D310			HZS16N(B2)	ZENER DIODE		
D310			RD16ES(B2)	ZENER DIODE		
⚠ D311			S5688B	DIODE	KP1	
⚠ D311			S5688B	DIODE	K2P2	
⚠ D311			1SR139-400	DIODE	KP1	
⚠ D311			1SR139-400	DIODE	K2P2	
⚠ D312			S5688B	DIODE	M2C2	
⚠ D312			S5688B	DIODE	Y1M1C1	
⚠ D312			1SR139-400	DIODE	M2C2	
⚠ D312			1SR139-400	DIODE	Y1M1C1	
D313,314			HZS18N(B)	ZENER DIODE		
D313,314			RD18ES(B)	ZENER DIODE		
⚠ D315			S5688B	DIODE		
⚠ D315			1SR139-400	DIODE		
D316,317			HSS104A	DIODE		
D316,317			1SS131	DIODE		

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6

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠ IC31			TA78057S	ANALOGUE IC		
⚠ Q1 ,2			TRAIT5N*5	TRANSISTOR		
⚠ Q3 ,4			TRAIT5P*5	TRANSISTOR		
⚠ Q5 ,6			TRAIT5N*5	TRANSISTOR		
⚠ Q7 ,8			TRAIT5P*5	TRANSISTOR		
⚠ Q9			TRAIT5N*5	TRANSISTOR		
⚠ Q10			TRAIT5P*5	TRANSISTOR		
Q11 ,12			2SC2631(R,S)	TRANSISTOR		
Q13 ,14			2SA992(F,E)	TRANSISTOR		
Q51 ,52			2SC2631(R,S)	TRANSISTOR		
Q53 ,54			2SA992(F,E)	TRANSISTOR		
Q101			2SC2631(R,S)	TRANSISTOR		
Q102			2SA992(F,E)	TRANSISTOR		
Q151-153			DTC113ZSA	DIGITAL TRANSISTOR		
Q151-153			UN4219	DIGITAL TRANSISTOR		
Q154			DTC113ZSA	DIGITAL TRANSISTOR	M2C2	
Q154			DTC113ZSA	DIGITAL TRANSISTOR	Y1M1C1	
Q154			UN4219	DIGITAL TRANSISTOR	M2C2	
Q154			UN4219	DIGITAL TRANSISTOR	Y1M1C1	
Q161,162			2SC1845(F,E)	TRANSISTOR		
Q163,164			2SA992(F,E)	TRANSISTOR		
Q201,202			2SC2458(Y,GR)	TRANSISTOR		
Q201,202			2SC3311A(Q,R)	TRANSISTOR		
Q203			DTC124ESA	DIGITAL TRANSISTOR		
Q203			UN4212	DIGITAL TRANSISTOR		
Q211,212			DTC113ZSA	DIGITAL TRANSISTOR		
Q211,212			UN4219	DIGITAL TRANSISTOR		
Q213			DTC124ESA	DIGITAL TRANSISTOR		
Q213			UN4212	DIGITAL TRANSISTOR		
⚠ Q214			2SD2012	TRANSISTOR		
⚠ Q214			2SD2061	TRANSISTOR		
Q215			DTC124ESA	DIGITAL TRANSISTOR		
Q215			UN4212	DIGITAL TRANSISTOR		
Q301			2SC2003(L,K)	TRANSISTOR		
⚠ Q302			2SC2458(Y,GR)	TRANSISTOR		
⚠ Q302			2SC3311A(Q,R)	TRANSISTOR		
⚠ Q303			2SD2012	TRANSISTOR		
⚠ Q303			2SD2061	TRANSISTOR		
⚠ Q311			2SB1370	TRANSISTOR		
⚠ Q311			2SB1375	TRANSISTOR		

SURROUND (X08-2850-10/X08-2903-00)

C401,402			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C403,404			CK73FB1H102K	CHIP C	1000PF	K		
C405,406			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C415			CC73FSL1H151J	CHIP C	150PF	J		
C416			CK73FB1H103K	CHIP C	0.010UF	K		
C419,420			CE04KW1E470M	ELECTRO	47UF	25WV		
C421,422			CK73FB1H682K	CHIP C	6800PF	K		
C425,426			CK73FB1H822K	CHIP C	8200PF	K		
C427,428			CC73FSL1H391J	CHIP C	390PF	J		
C437			CK73FB1H103K	CHIP C	0.010UF	K		
C438			CC73FSL1H151J	CHIP C	150PF	J		
C441,442			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C443			CK73FB1H822K	CHIP C	8200PF	K		
C444			CK73FB1H183K	CHIP C	0.018UF	K		

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C445			CK73FB1H272K	CHIP C	2700PF	K		
C446			CK73FB1H333K	CHIP C	0.033UF	K		
C447			CK73FB1H392K	CHIP C	3900PF	K		
C448			CK73FB1H333K	CHIP C	0.033UF	K		
C449			CC73FSL1H330J	CHIP C	33PF	J		
C450			CC73FSL1H101J	CHIP C	100PF	J		
C459			CK73FB1H103K	CHIP C	0.010UF	K		
C460			CC73FSL1H151J	CHIP C	150PF	J		
C463,464			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C465,466			CK73FB1H822K	CHIP C	8200PF	K		
C467,468			CK73FB1H272K	CHIP C	2700PF	K		
C469,470			CK73FB1H392K	CHIP C	3900PF	K		
C471,472			CC73FSL1H330J	CHIP C	33PF	J		
C481			CK73FB1H103K	CHIP C	0.010UF	K		
C482			CC73FSL1H151J	CHIP C	150PF	J		
C501			CK73FB1H102K	CHIP C	1000PF	K		
C502			CK73FB1H103K	CHIP C	0.010UF	K		
C503-507			CK73FB1E104K	CHIP C	0.10UF	K		
C508			CK73FB1H102K	CHIP C	1000PF	K		
C509			CK73FB1E104K	CHIP C	0.10UF	K		
C510			CK73FB1H822K	CHIP C	8200PF	K		
C511			CC73FCH1H220J	CHIP C	22PF	J		
C513,514			CK73FB1E104K	CHIP C	0.10UF	K		
C515			CE04KW1A101M	ELECTRO	100UF	10WV		
C516,517			CQ93FMG1H103J	MYLAR	0.010UF	J		
C518			CE04KW1A101M	ELECTRO	100UF	10WV		
C520,521			CK73FB1E104K	CHIP C	0.10UF	K		
C522,523			CC73FCH1H560J	CHIP C	56PF	J		
C526-530			CK73FB1E104K	CHIP C	0.10UF	K		
C531			CK73FB1H102K	CHIP C	1000PF	K		
C532			CK73FB1E104K	CHIP C	0.10UF	K		
C533			CK73FB1H822K	CHIP C	8200PF	K		
C534			CC73FCH1H220J	CHIP C	22PF	J		
C536,537			CK73FB1E104K	CHIP C	0.10UF	K		
C538			CE04KW1A101M	ELECTRO	100UF	10WV		
C539,540			CQ93FMG1H103J	MYLAR	0.010UF	J		
C541			CE04KW1A101M	ELECTRO	100UF	10WV		
C543			CK73FB1E104K	CHIP C	0.10UF	K		
C547-551			CK73FB1E104K	CHIP C	0.10UF	K		
C552			CK73FB1H102K	CHIP C	1000PF	K		
C553			CK73FB1E104K	CHIP C	0.10UF	K		
C554			CC73FB1H822K	CHIP C	8200PF	K		
C556-558			CK73FB1E104K	CHIP C	0.10UF	K		
C559			CK73FB1H103K	CHIP C	0.010UF	K		
C560			CC73FCH1H220J	CHIP C	22PF	J		
C561			CC73FCH1H330J	CHIP C	33PF	J		
C567			CE04KW1A101M	ELECTRO	100UF	10WV		
C568,569			CQ93FMG1H103J	MYLAR	0.010UF	J		
C570			CE04KW1A101M	ELECTRO	100UF	10WV		
C571			CC73FCH1H100D	CHIP C	10PF	D		
C572-574			CC73FCH1H470J	CHIP C	47PF	J		
C575-579			CK73FB1E104K	CHIP C	0.10UF	K		
C580			CK73FB1H103K	CHIP C	0.010UF	K		
C581			CK73FB1H102K	CHIP C	1000PF	K		
C582			CK73FB1E104K	CHIP C	0.10UF	K		

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C583			CK73FB1H822K	CHIP C	8200PF	K		
C584			CK73FB1H102K	CHIP C	1000PF	K		
C585			CK73FB1H103K	CHIP C	0.010UF	K		
C586			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C592			CK73FB1H333K	CHIP C	0.033UF	K		
C594			CK73FB1H103K	CHIP C	0.010UF	K		
C595,596			CC73FSL1H221J	CHIP C	220PF	J		
C601			CE04KW1A100M	ELECTRO	10UF	10WV		
C602,603			CQ93FMG1H103J	MYLAR	0.010UF	J		
C604			CE04KW1A101M	ELECTRO	100UF	10WV		
C605			CE04KW1A100M	ELECTRO	10UF	10WV		
C606,607			CQ93FMG1H103J	MYLAR	0.010UF	J		
C608			CE04KW1A101M	ELECTRO	100UF	10WV		
C609			CE04KW1A100M	ELECTRO	10UF	10WV		
C610,611			CQ93FMG1H103J	MYLAR	0.010UF	J		
C613			CK73FB1E104K	CHIP C	0.10UF	K		
C614			CE04KW1A100M	ELECTRO	10UF	10WV		
C615,616			CK73FB1E104K	CHIP C	0.10UF	K		
C620,621			CC73FSL1H101J	CHIP C	100PF	J		
C622,623			CK73FB1E104K	CHIP C	0.10UF	K		
C624,625			CC73FSL1H220J	CHIP C	22PF	J		
C626			CK73FB1E104K	CHIP C	0.10UF	K		
C627			CE04KW1E470M	ELECTRO	47UF	25WV		
C628			CK73FB1E104K	CHIP C	0.10UF	K	C2	
C628			CK73FB1E104K	CHIP C	0.10UF	K	K2P2M2	
C629			CE04KW1E470M	ELECTRO	47UF	25WV	C2	
C629			CE04KW1E470M	ELECTRO	47UF	25WV	K2P2M2	
C630			CK73FB1H103K	CHIP C	0.010UF	K	C2	
C630			CK73FB1H103K	CHIP C	0.010UF	K	K2P2M2	
C631			CK73FB1H103K	CHIP C	0.010UF	K		
C632			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C633			C90-1826-05	BACKUP-C	0.047F	5.5WV		
C634			CK73FB1H102K	CHIP C	1000PF	K		
C635			CE04KW1A101M	ELECTRO	100UF	10WV		
C636			CK73FF1C105Z	CHIP C	1.0UF	Z		
C637			CK73FB1H103K	CHIP C	0.010UF	K		
C640			CE04KW1H2R2M	ELECTRO	2.2UF	50WV	K2P2	
C641			CC73FSL1H331J	CHIP C	330PF	J	K2P2	
C642			CK73FB1E104K	CHIP C	0.10UF	K	K2P2	
C645,646			CC73FCH1H100D	CHIP C	10PF	D	K2P2	
C651			CK73FB1E104K	CHIP C	0.10UF	K		
C652			CE04KW1E470M	ELECTRO	47UF	25WV		
C750			CK73FB1H103K	CHIP C	0.010UF	K		
C751-754			CK73FB1E104K	CHIP C	0.10UF	K		
C801,802			CC73FSL1H101J	CHIP C	100PF	J		
C851			CE04KW1A101M	ELECTRO	100UF	10WV	K2P2	
C852-854			CK73FB1H103K	CHIP C	0.010UF	K		
C857			CK73FB1E104K	CHIP C	0.10UF	K		
C858			CK73FB1H102K	CHIP C	1000PF	K		
C859			CK73FB1H103K	CHIP C	0.010UF	K		
C861,862			CE04KW1E470M	ELECTRO	47UF	25WV		
C863-865			CC73FSL1H220J	CHIP C	22PF	J		
C868			CK73FB1E104K	CHIP C	0.10UF	K		
C870			CK73FB1E104K	CHIP C	0.10UF	K		
C872			CK73FB1E104K	CHIP C	0.10UF	K		

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9

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C875,876			CK73FB1E104K	CHIP C 0.10UF K		
C878,879			CK73FB1E104K	CHIP C 0.10UF K		
C882-887			CC73FSL1H470J	CHIP C 47PF J		
C888-890			CK73FB1E104K	CHIP C 0.10UF K		
C893-895			CK73FB1E104K	CHIP C 0.10UF K		
C896-898			CC73FSL1H470J	CHIP C 47PF J		
C899			CE04KW1V220M	ELECTRO 22UF 35WV		
C900			CK73FB1E104K	CHIP C 0.10UF K		
C901			CC73FSL1H470J	CHIP C 47PF J		
C904,905			CK73FB1E104K	CHIP C 0.10UF K		
C906			CE04KW1V220M	ELECTRO 22UF 35WV		
C907,908			CE04KW1A100M	ELECTRO 10UF 10WV		
C909			CK73FB1E104K	CHIP C 0.10UF K		
C910,911			CC73FSL1H470J	CHIP C 47PF J		
C916			CK73FB1E104K	CHIP C 0.10UF K		
C917			CK73FB1H102K	CHIP C 1000PF K		
C918			CC73FSL1H331J	CHIP C 330PF J		
C919-922			CC73FSL1H470J	CHIP C 47PF J		
C924			CK73FB1E104K	CHIP C 0.10UF K		
C925			CK73FB1H103K	CHIP C 0.010UF K		
C926			CE04KW1H100M	ELECTRO 10UF 50WV		
C927,928			CC73FSL1H470J	CHIP C 47PF J		
C929,930			CC73FSL1H101J	CHIP C 100PF J		
C931-938			CK73FB1E104K	CHIP C 0.10UF K		
C939-941			CC73FSL1H470J	CHIP C 47PF J		
C942,943			CK73FB1E104K	CHIP C 0.10UF K		
C944			CK73FB1H102K	CHIP C 1000PF K		
C945			CK73FB1E104K	CHIP C 0.10UF K		
C946			CC73FSL1H220J	CHIP C 22PF J		
C948,949			CC73FSL1H220J	CHIP C 22PF J		
C950,951			CK73FB1E273KTA	CHIP C 0.027UF K		
C952			CK73FB1H562K	CHIP C 5600PF K		
C953,954			CE04KW1E470M	ELECTRO 47UF 25WV		
C993			CK73FB1E104K	CHIP C 0.10UF K		
CN11			E40-4607-05	PIN ASSY		
CN12			E40-4609-05	PIN ASSY		
CN13			E40-4900-05	FLAT CABLE CONNECTOR		
CN14,15			E40-4609-05	PIN ASSY		
CN16			E40-4807-05	PIN ASSY		
CN17			E40-4295-05	FLAT CABLE CONNECTOR		
CN19			E40-4808-05	PIN ASSY	K2P2M2	
CN19			E40-4808-05	PIN ASSY	M1C1C2	
J11	1B	✻	E63-1028-05	PHONO JACK DIGITAL-IN		
J15	1C		E11-0360-05	MINIATURE PHONE JACK(BLK)SL16		
J16 ,17	1C	✻	E11-0374-05	MINIATURE PHONE JACK(GRN)SYS		
L1 ,2			L92-0044-05	FERRITE CORE		
L6		✻	L92-0089-05	CHIP FERRITE		
L9 -12		✻	L92-0089-05	CHIP FERRITE		
L21 ,22		✻	L92-0089-05	CHIP FERRITE		
L27 -29		✻	L92-0089-05	CHIP FERRITE		
L31 ,32		✻	L92-0089-05	CHIP FERRITE		
L50 -55		✻	L92-0080-05	CHIP FERRITE		
L56 -59		✻	L92-0079-05	CHIP FERRITE		
L61 ,62		✻	L92-0090-05	CHIP FERRITE		

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10

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
L63 ,64		✻	L92-0081-05	CHIP FERRITE		
L65 ,66		✻	L92-0089-05	CHIP FERRITE		
L67 ,68		✻	L92-0090-05	CHIP FERRITE		
L69		✻	L92-0091-05	CHIP FERRITE		
L70 -74		✻	L92-0081-05	CHIP FERRITE		
L701,702			L40-1015-34	SMALL FIXED INDUCTOR (100UH)		
X1			L77-2192-05	CRYSTAL RESONATOR (12.288M)		
X2			L77-2193-05	CRYSTAL RESONATOR (4.0M)		
X3			L78-0267-05	RESONATOR (4.194MHZ)		
X4			L78-0271-05	RESONATOR (4.23MHZ)		
X5			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	K2P2	
X6			L78-0674-05	RESONATOR (3.64MHZ)		
R403,404			RK73FB2A104J	CHIP R 100K J 1/10W		
R413,414			RK73FB2A104J	CHIP R 100K J 1/10W		
R415,416			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R417,418			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R421,422			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R423,424			RK73FB2A101J	CHIP R 100 J 1/10W		
R433,434			RK73FB2A104J	CHIP R 100K J 1/10W		
R435,436			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R437			RK73FB2A821J	CHIP R 820 J 1/10W		
R438			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R439			RK73FB2A163J	CHIP R 16K J 1/10W		
R440			RK73FB2A153J	CHIP R 15K J 1/10W		
R441			RK73FB2A303J	CHIP R 30K J 1/10W		
R442			RK73FB2A153J	CHIP R 15K J 1/10W		
R443,444			RK73FB2A101J	CHIP R 100 J 1/10W		
R449,450			RK73FB2A104J	CHIP R 100K J 1/10W		
R451,452			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R453,454			RK73FB2A821J	CHIP R 820 J 1/10W		
R455,456			RK73FB2A163J	CHIP R 16K J 1/10W		
R457,458			RK73FB2A303J	CHIP R 30K J 1/10W		
R459,460			RK73FB2A101J	CHIP R 100 J 1/10W		
R501			RK73FB2A471J	CHIP R 470 J 1/10W		
R502			RK73FB2A103J	CHIP R 10K J 1/10W		
R504			RK73FB2A101J	CHIP R 100 J 1/10W		
R505			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R506			RK73FB2A473J	CHIP R 47K J 1/10W		
R508,509			RK73FB2A331J	CHIP R 330 J 1/10W		
R515			RK73FB2A221J	CHIP R 220 J 1/10W		
⚠ R516			RD14NB2E2R7J	RD 2.7 J 1/4W		
R517			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R518			RK73FB2A471J	CHIP R 470 J 1/10W		
R519			RK73FB2A103J	CHIP R 10K J 1/10W		
R521			RK73FB2A101J	CHIP R 100 J 1/10W		
R522			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R523			RK73FB2A473J	CHIP R 47K J 1/10W		
R525,526			RK73FB2A331J	CHIP R 330 J 1/10W		
R532			RK73FB2A221J	CHIP R 220 J 1/10W		
⚠ R533			RD14NB2E2R7J	RD 2.7 J 1/4W		
R534			RK73FB2A103J	CHIP R 10K J 1/10W		
R535			RK73FB2A471J	CHIP R 470 J 1/10W		
R536			RK73FB2A103J	CHIP R 10K J 1/10W		
R538			RK73FB2A101J	CHIP R 100 J 1/10W		

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R539			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R540			RK73FB2A473J	CHIP R	47K	J	1/10W		
R542,543			RK73FB2A331J	CHIP R	330	J	1/10W		
R544-546			RK73FB2A471J	CHIP R	470	J	1/10W		
⚠ R552			RD14NB2E2R7J	RD	2.7	J	1/4W		
R553,554			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R556-561			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R562-566			RK73FB2A473J	CHIP R	47K	J	1/10W		
R567,568			RK73FB2A101J	CHIP R	100	J	1/10W		
R569			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R570			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R571			RK73FB2A103J	CHIP R	10K	J	1/10W		
R572,573			RK73FB2A221J	CHIP R	220	J	1/10W		
⚠ R574-576			RD14NB2E2R7J	RD	2.7	J	1/4W		
R577-587			RK73FB2A473J	CHIP R	47K	J	1/10W		
R588-592			RK73FB2A101J	CHIP R	100	J	1/10W		
R593-613			RK73FB2A473J	CHIP R	47K	J	1/10W		
R614-617			RK73FB2A224J	CHIP R	220K	J	1/10W		
R618-633			RK73FB2A473J	CHIP R	47K	J	1/10W		
R634-638			RK73FB2A101J	CHIP R	100	J	1/10W		
R639			RK73FB2A473J	CHIP R	47K	J	1/10W		
R640			RK73FB2A101J	CHIP R	100	J	1/10W		
R641-650			RK73FB2A473J	CHIP R	47K	J	1/10W		
R651,652			RK73FB2A101J	CHIP R	100	J	1/10W		
R653-655			RK73FB2A473J	CHIP R	47K	J	1/10W		
R656-658			RK73FB2A101J	CHIP R	100	J	1/10W		
R659-668			RK73FB2A473J	CHIP R	47K	J	1/10W		
R669			RK73FB2A101J	CHIP R	100	J	1/10W		
R670-679			RK73FB2A473J	CHIP R	47K	J	1/10W		
R680,681			RK73FB2A101J	CHIP R	100	J	1/10W		
R682-689			RK73FB2A473J	CHIP R	47K	J	1/10W		
R692			RK73FB2A473J	CHIP R	47K	J	1/10W	K2P2	
R693,694			RK73FB2A473J	CHIP R	47K	J	1/10W		
R695			RK73FB2A473J	CHIP R	47K	J	1/10W	KP1	
R695			RK73FB2A473J	CHIP R	47K	J	1/10W	M2C2	
R695			RK73FB2A473J	CHIP R	47K	J	1/10W	Y1M1C1	
R696,697			RK73FB2A473J	CHIP R	47K	J	1/10W		
R698			RK73FB2A473J	CHIP R	47K	J	1/10W	KP1	
R699			RK73FB2A473J	CHIP R	47K	J	1/10W	KP1	
R699			RK73FB2A473J	CHIP R	47K	J	1/10W	K2P2	
R701-703			RK73FB2A473J	CHIP R	47K	J	1/10W		
R704			RK73FB2A103J	CHIP R	10K	J	1/10W		
R709-711			RK73FB2A101J	CHIP R	100	J	1/10W		
R712			RK73FB2A473J	CHIP R	47K	J	1/10W	KP1Y1	
R712			RK73FB2A473J	CHIP R	47K	J	1/10W	M1C1	
R713			RK73FB2A473J	CHIP R	47K	J	1/10W		
R714-716			RK73FB2A101J	CHIP R	100	J	1/10W		
R717-720			RK73FB2A473J	CHIP R	47K	J	1/10W		
R723-727			RK73FB2A473J	CHIP R	47K	J	1/10W		
R729,730			RK73FB2A473J	CHIP R	47K	J	1/10W		
R732			RK73FB2A104J	CHIP R	100K	J	1/10W		
R733			RK73FB2A331J	CHIP R	330	J	1/10W		
R734,735			RK73FB2A104J	CHIP R	100K	J	1/10W		
R736			RK73FB2A331J	CHIP R	330	J	1/10W		
R737			RK73FB2A104J	CHIP R	100K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R738-742			RK73FB2A473J	CHIP R	47K	J	1/10W		
R743-745			RK73FB2A101J	CHIP R	100	J	1/10W		
R746			RK73FB2A473J	CHIP R	47K	J	1/10W		
R747			RK73FB2A101J	CHIP R	100	J	1/10W		
R748			RK73FB2A104J	CHIP R	100K	J	1/10W		
R749,750			RK73FB2A101J	CHIP R	100	J	1/10W		
R751			RK73FB2A473J	CHIP R	47K	J	1/10W		
R752,753			RK73FB2A101J	CHIP R	100	J	1/10W		
R754,755			RK73FB2A473J	CHIP R	47K	J	1/10W		
R757,758			RK73FB2A101J	CHIP R	100	J	1/10W		
R759			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R760			RK73FB2A103J	CHIP R	10K	J	1/10W		
R761			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R762			RK73FB2A103J	CHIP R	10K	J	1/10W		
R763			RK73FB2A104J	CHIP R	100K	J	1/10W		
R764			RK73FB2A103J	CHIP R	10K	J	1/10W		
R765			RK73FB2A821J	CHIP R	820	J	1/10W		
R767-771			RK73FB2A473J	CHIP R	47K	J	1/10W		
R777-780			RK73FB2A473J	CHIP R	47K	J	1/10W		
R781			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R782			RK73FB2A750J	CHIP R	75	J	1/10W		
R783			RK73FB2A473J	CHIP R	47K	J	1/10W		
R784			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R785			RK73FB2A750J	CHIP R	75	J	1/10W		
R786,787			RD14NB2E100J	RD	10	J	1/4W		
R788			RD14NB2E100J	RD	10	J	1/4W	C2	
R788			RD14NB2E100J	RD	10	J	1/4W	K2P2M2	
R793-796			RK73FB2A223J	CHIP R	22K	J	1/10W	K2P2	
R797			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2	
R798			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2	
R799			RK73FB2A272J	CHIP R	2.7K	J	1/10W	K2P2	
R800			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R801,802			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R803			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R804-807			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R808-821			RK73FB2A101J	CHIP R	100	J	1/10W		
R823,824			RK73FB2A101J	CHIP R	100	J	1/10W		
R829-832			RK73FB2A101J	CHIP R	100	J	1/10W		
R834			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R835,836			RK73FB2A101J	CHIP R	100	J	1/10W		
R840			RK73FB2A473J	CHIP R	47K	J	1/10W		
R842			RK73FB2A473J	CHIP R	47K	J	1/10W		
R844			RK73FB2A103J	CHIP R	10K	J	1/10W		
R845,846			RK73FB2A473J	CHIP R	47K	J	1/10W		
R847			RK73FB2A103J	CHIP R	10K	J	1/10W		
R851,852			RK73FB2A101J	CHIP R	100	J	1/10W		
R902			RK73FB2A473J	CHIP R	47K	J	1/10W		
R903			RK73FB2A101J	CHIP R	100	J	1/10W		
R904-908			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2C2	
R904-908			RK73FB2A101J	CHIP R	100	J	1/10W	M1C1M2	
R909-912			RK73FB2A101J	CHIP R	100	J	1/10W	C2	
R909-912			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2M2	
R913			RK73FB2A473J	CHIP R	47K	J	1/10W		
R914			RK73FB2A473J	CHIP R	47K	J	1/10W	K2P2	
R914			RK73FB2A473J	CHIP R	47K	J	1/10W	M2C2	

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R915			RK73FB2A473J	CHIP R	47K	J	1/10W		
R916			RK73FB2A473J	CHIP R	47K	J	1/10W	M1C1Y1	
R916			RK73FB2A473J	CHIP R	47K	J	1/10W	M2C2	
R917			RK73FB2A473J	CHIP R	47K	J	1/10W	K2P2	
R917			RK73FB2A473J	CHIP R	47K	J	1/10W	M1C1	
R917			RK73FB2A473J	CHIP R	47K	J	1/10W	M2C2Y1	
R919			RK73FB2A473J	CHIP R	47K	J	1/10W	K2P2	
R920			RK73FB2A101J	CHIP R	100	J	1/10W		
R921-924			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R930			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R931			RK73FB2A473J	CHIP R	47K	J	1/10W		
R935,936			RK73FB2A202J	CHIP R	2.0K	J	1/10W		
R937			RK73FB2A132J	CHIP R	1.3K	J	1/10W		
R938			RK73FB2A181J	CHIP R	180	J	1/10W		
R939,940			RK73FB2A132J	CHIP R	1.3K	J	1/10W		
R943,944			RK73FB2A104J	CHIP R	100K	J	1/10W		
R951			RK73FB2A101J	CHIP R	100	J	1/10W		
R952			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2M2	
R952			RK73FB2A101J	CHIP R	100	J	1/10W	M1C1C2	
R953-959			RK73FB2A103J	CHIP R	10K	J	1/10W		
R962,963			RK73FB2A221J	CHIP R	220	J	1/10W		
R965-968			RK73FB2A221J	CHIP R	220	J	1/10W		
R971,972			RK73FB2A471J	CHIP R	470	J	1/10W		
R973			RK73FB2A221J	CHIP R	220	J	1/10W		
R976			RK73FB2A103J	CHIP R	10K	J	1/10W		
R977,978			RD14NB2E471J	RD	470	J	1/4W	K2P2	
R979			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R980			RK73FB2A222J	CHIP R	2.2K	J	1/10W	K2P2	
R981			RK73FB2A223J	CHIP R	22K	J	1/10W	K2P2	
R982,983			RK73FB2A223J	CHIP R	22K	J	1/10W		
R984			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R985			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R986			RK73FB2A103J	CHIP R	10K	J	1/10W		
R987			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R988			RK73FB2A101J	CHIP R	100	J	1/10W		
R989,990			RK73FB2A221J	CHIP R	220	J	1/10W		
R991			RK73FB2A103J	CHIP R	10K	J	1/10W		
R992			RK73FB2A104J	CHIP R	100K	J	1/10W		
R993			RK73FB2A473J	CHIP R	47K	J	1/10W		
R997			RK73FB2A331J	CHIP R	330	J	1/10W		
R998			RK73FB2A471J	CHIP R	470	J	1/10W		
W2 -6			R92-0670-05	CHIP R	0 OHM			M2C2	
W2 -6			R92-0670-05	CHIP R	0 OHM			Y1M1C1	
W3 -6			R92-0670-05	CHIP R	0 OHM			KP1	
W3 -6			R92-0670-05	CHIP R	0 OHM			K2P2	
S1			S62-0034-05	SLIDE SWITCH					
D51 -53			DA204U	DIODE					
D51 -53			MA143A	DIODE					
D51 -53			1SS302	DIODE					
D54			DAP202U	DIODE					
D54			MA142WA	DIODE					
D54			1SS300	DIODE					
D58			DAN202U	DIODE					
D58			1SS301	DIODE					

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D59			DAP202U	DIODE		
D59			MA142WA	DIODE		
D59			1SS300	DIODE		
D60 ,61			MA111	DIODE		
D62			DA204U	DIODE		
D62			MA143A	DIODE		
D62			1SS302	DIODE		
D63			MA111	DIODE		
⚠ D64 ,65			U1BC44	DIODE		
D72			DA204U	DIODE		
D72			MA143A	DIODE		
D72			1SS302	DIODE		
D75 ,76			DA204U	DIODE		
D75 ,76			MA143A	DIODE		
D75 ,76			1SS302	DIODE		
⚠ D103			U1BC44	DIODE		
D108			MA111	DIODE	K2P2M2	
D108			MA111	DIODE	M1C1C2	
D109			DA204U	DIODE		
D109			MA143A	DIODE		
D109			1SS302	DIODE		
D110			DAP202U	DIODE		
D110			MA142WA	DIODE		
D110			1SS300	DIODE		
D111			MA111	DIODE		
IC52		✻	DSPI56009FJ88	MOS-IC		
IC53			TC7W04FU	MOS-IC		
IC54			TC74HCU04AF	IC(HEX INVERTER SMD)		
IC55			LH64256CK-70	MEMORY IC		
IC56		✻	DSPF56009FJ88	MOS-IC		
⚠ IC57			LM2940CT-5.0	ANALOGUE IC		
IC58			LH64256CK-70	MEMORY IC		
IC59		✻	DSPB56007FJ88	MOS-IC		
IC60			TC74HC153AF	MOS-IC		
⚠ IC61			TA7805S	ANALOGUE IC		
IC62			CS4226KQC	MOS-IC		
⚠ IC63			LM2940CT-5.0	ANALOGUE IC		
⚠ IC64,65			TA7805S	ANALOGUE IC		
IC66		✻	UPD78058GC-A74	MI-COM IC		
IC67			UPD17215GT-737	MI-COM IC		
IC68			TDA7479D	ANALOGUE IC	K2P2	
IC69		✻	UPD78078GF-080	MI-COM IC		
IC70			S-806D-Z	ANALOGUE IC		
IC71			TC74HC153AF	MOS-IC	C2	
IC71			TC74HC153AF	MOS-IC	K2P2M2	
IC72			TC74HCU04AF	IC(HEX INVERTER SMD)		
⚠ IC73			LM2940CT-5.0	ANALOGUE IC		
IC74			NJM4565M	IC(OP AMP X2)		
IC76			NJM4565M	IC(OP AMP X2)		
IC78			NJM4565M	IC(OP AMP X2)		
IC80			NJM4565M	IC(OP AMP X2)		
IC85			TC7S04F	IC(2CH NAND GATE)		
IC86		✻	N341256SJ-12	MEMORY IC		
IC86		✻	N341256SJ-15	MEMORY IC		
IC86		✻	W24257AJ-12	MEMORY IC		

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IC86		✻	W24257AJ-15	MEMORY IC		
IC87		✻	27C1000MC-12	MEMORY IC		
IC89			TC74HC153AF	MOS-IC		
IC90			TC74HC393AF	MOS-IC		
IC92			TC74HC123AF	MOS-IC		
Q51			DTA124EUA	DIGITAL TRANSISTOR	K2P2	
Q51			UN5112	DIGITAL TRANSISTOR	K2P2	
Q52			DTC124EUA	DIGITAL TRANSISTOR	K2P2	
Q52			UN5212	DIGITAL TRANSISTOR	K2P2	
Q53			DTA124EUA	DIGITAL TRANSISTOR	K2P2	
Q53			UN5112	DIGITAL TRANSISTOR	K2P2	
Q54			DTC124EUA	DIGITAL TRANSISTOR	K2P2	
Q54			UN5212	DIGITAL TRANSISTOR	K2P2	
Q55			2SB1424(Q,R)	TRANSISTOR	K2P2	
Q56			2SC4081(R,S)	TRANSISTOR	K2P2	
Q56			2SC4116(Y,GR)	TRANSISTOR	K2P2	
Q57			DTC113ZUA	DIGITAL TRANSISTOR		
Q57			UN5219	DIGITAL TRANSISTOR		
Q58			2SC4081(R,S)	TRANSISTOR		
Q58			2SC4116(Y,GR)	TRANSISTOR		
Q60			2SC4081(R,S)	TRANSISTOR		
Q60			2SC4116(Y,GR)	TRANSISTOR		
Q63			DTC124EUA	DIGITAL TRANSISTOR		
Q63			UN5212	DIGITAL TRANSISTOR		
Q64			2SC4081(R,S)	TRANSISTOR		
Q64			2SC4116(Y,GR)	TRANSISTOR		
Q65			DTC113ZUA	DIGITAL TRANSISTOR		
Q65			UN5219	DIGITAL TRANSISTOR		
Q66			2SA1576A(R,S)	TRANSISTOR		
Q66			2SA1586(Y,GR)	TRANSISTOR		
Q67			DTC124EUA	DIGITAL TRANSISTOR		
Q67			UN5212	DIGITAL TRANSISTOR		
Q68			DTA124EUA	DIGITAL TRANSISTOR		
Q68			UN5112	DIGITAL TRANSISTOR		
A1 ,2	1C		W02-1181-05	OPTIC RECEIVING MODULE		
A3	1C		W02-1114-05	OSCILLATING MODULE	C2	
A3	1C		W02-1114-05	OSCILLATING MODULE	K2P2M2	
TONE (X11-3800-10/X11-3813-00)						
D21 -24			B30-2519-05	LED(INFRARED,D=5,)		
C1 -10			CC73FSL1H221J	CHIP C 220PF J		
C11 ,12			CC73FSL1H101J	CHIP C 100PF J		
C13			CK73FB1H103K	CHIP C 0.010UF K		
C14			CC73FSL1H151J	CHIP C 150PF J		
C15			CK73FB1H103K	CHIP C 0.010UF K		
C16			CC73FSL1H151J	CHIP C 150PF J		
C17			CK73FB1H103K	CHIP C 0.010UF K		
C18			CC73FSL1H151J	CHIP C 150PF J		
C21 ,22			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C23 ,24			CC73FSL1H470J	CHIP C 47PF J		
C25 ,26			CE04KW1E470M	ELECTRO 47UF 25WV		
C27 ,28			CC73FSL1H101J	CHIP C 100PF J		
C33 -36			CC73FSL1H221J	CHIP C 220PF J		
C37 -40			CE04KW1A101M	ELECTRO 100UF 10WV		
C41 -44			CC73FSL1H221J	CHIP C 220PF J		

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C47 -52			CC73FSL1H221J	CHIP C 220PF J		
C53			CC73FSL1H101J	CHIP C 100PF J		
C54			CK73FB1H103K	CHIP C 0.010UF K		
C55			CC73FSL1H151J	CHIP C 150PF J		
C57			CC73FSL1H151J	CHIP C 150PF J	K2P2	
C61 ,62			CE04KW1H4R7M	ELECTRO 4.7UF 50WV	K2P2	
C63 ,64			CC73FSL1H470J	CHIP C 47PF J	K2P2	
C65 ,66			CE04KW1H100M	ELECTRO 10UF 50WV	K2P2	
C67 ,68			CC73FSL1H101J	CHIP C 100PF J	K2P2	
C71 ,72			CC73FSL1H221J	CHIP C 220PF J	K2P2	
C81 ,82			CK73FB1H102K	CHIP C 1000PF K	K2P2	
C83			CK73FB1C104K	CHIP C 0.10UF K	K2P2	
C84 ,85			CC73FSL1H101J	CHIP C 100PF J		
C86			CK73FB1C104K	CHIP C 0.10UF K		
C87 ,88			CC73FSL1H101J	CHIP C 100PF J	K2P2	
C89			CK73FB1C104K	CHIP C 0.10UF K	K2P2	
C91 ,92			CK73FB1H103K	CHIP C 0.010UF K		
C103,104			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C105,106			CK73FB1E104K	CHIP C 0.10UF K		
C107			CC73FSL1H151J	CHIP C 150PF J		
C108			CK45FF1H103Z	CERAMIC 0.010UF Z		
C109,110			CC73FCH1H220J	CHIP C 22PF J		
C111,112			CE04KW2A4R7M	ELECTRO 4.7UF 100WV		
C115,116			CK73FB1H561K	CHIP C 560PF K		
C117,118			CE04KW1H100M	ELECTRO 10UF 50WV		
C119			CC73FSL1H101J	CHIP C 100PF J		
C121,122			CC73FSL1H821J	CHIP C 820PF J		
C123-126			CC73FSL1H101J	CHIP C 100PF J		
C127,128			CK73FB1E104K	CHIP C 0.10UF K		
C131,132			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C133,134			CC73FSL1H101J	CHIP C 100PF J		
C135,136			CE04KW1H220M	ELECTRO 22UF 50WV		
C137,138			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C139,140			CC73FSL1H101J	CHIP C 100PF J		
C141,142			CE04KW1H220M	ELECTRO 22UF 50WV		
C143,144			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C145,146			CC73FSL1H101J	CHIP C 100PF J		
C147,148			CE04KW1H220M	ELECTRO 22UF 50WV		
C153,154			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C155			CC73FSL1H151J	CHIP C 150PF J		
C156			CK45FF1H103Z	CERAMIC 0.010UF Z		
C157,158			CC73FCH1H220J	CHIP C 22PF J		
C159,160			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C163			CC73FSL1H101J	CHIP C 100PF J		
C165,166			CC73FSL1H821J	CHIP C 820PF J		
C167-170			CC73FSL1H101J	CHIP C 100PF J		
C171,172			CE04KW1H100M	ELECTRO 10UF 50WV		
C203,204			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C205			CC73FSL1H151J	CHIP C 150PF J		
C206			CK45FF1H103Z	CERAMIC 0.010UF Z		
C207,208			CC73FCH1H220J	CHIP C 22PF J		
C209,210			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C211,212			CE04KW1H100M	ELECTRO 10UF 50WV		
C213			CC73FSL1H101J	CHIP C 100PF J		
C215-220			CC73FSL1H101J	CHIP C 100PF J		

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C251			CK45FF1H103Z	CERAMIC	0.010UF	Z	K2P2	
C252			CC73FSL1H151J	CHIP C	150PF	J	K2P2	
C253,254			CE04KW1H100M	ELECTRO	10UF	50WV	K2P2	
C257,258			CC73FCH1H220J	CHIP C	22PF	J	K2P2	
C259,260			CE04KW1C220M	ELECTRO	22UF	16WV	K2P2	
C263			CC73FSL1H101J	CHIP C	100PF	J	K2P2	
C265-270			CC73FSL1H101J	CHIP C	100PF	J	K2P2	
C285,286			C90-3239-05	ELECTRO	100UF	25WV		
C301,302			CK73FB1E683KTA	CHIP C	0.068UF	K		
C303,304			CK73FB1H153K	CHIP C	0.015UF	K		
C305,306			CK73FB1H562K	CHIP C	5600PF	K		
C307,308			CK73FB1H183K	CHIP C	0.018UF	K		
C309,310			CK73FB1H821K	CHIP C	820PF	K		
C314			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C315,316			CC73FCH1H270J	CHIP C	27PF	J		
C317,318			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C319,320			CK73FB1H561K	CHIP C	560PF	K		
C321,322			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C325			CK73FB1H103K	CHIP C	0.010UF	K		
C326			CC73FSL1H151J	CHIP C	150PF	J		
C339,340			CC73FSL1H101J	CHIP C	100PF	J		
C341,342			CE04KW1H100M	ELECTRO	10UF	50WV		
C345			CE04KW1H100M	ELECTRO	10UF	50WV		
C346			CE04KW1H100M	ELECTRO	10UF	50WV	K2P2	
C347			CE04KW1H100M	ELECTRO	10UF	50WV		
C348			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C349			CE04KW1H100M	ELECTRO	10UF	50WV		
C350			CE04KW1H0R1M	ELECTRO	0.1UF	50WV		
C361			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C362			CC73FSL1H151J	CHIP C	150PF	J		
C363,364			CE04KW1H100M	ELECTRO	10UF	50WV		
C367,368			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C371			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C372			CC73FSL1H151J	CHIP C	150PF	J		
C373,374			CE04KW1H100M	ELECTRO	10UF	50WV		
C377,378			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C385,386			CC73FSL1H220J	CHIP C	22PF	J		
C389,390			CC73FSL1H101J	CHIP C	100PF	J		
C391,392			CC73FSL1H220J	CHIP C	22PF	J		
C395			CC73FSL1H101J	CHIP C	100PF	J		
C401,402			CC45FSL1H221JN	CERAMIC	220PF	J		
C501-506			CK73FB1C104K	CHIP C	0.10UF	K		
C507-510			CK73FB1E333KTA	CHIP C	0.033UF	K		
C511-514			CK73FB1C104K	CHIP C	0.10UF	K		
C515,516			CK73FB1H223KTA	CHIP C	0.022UF	K		
C521,522			CK73FB1H103K	CHIP C	0.010UF	K		
C523,524			CC73FSL1H151J	CHIP C	150PF	J		
C531,532			CE04KW1C470M	ELECTRO	47UF	16WV		
C533,534			CC73FSL1H101J	CHIP C	100PF	J		
C541			CK73FB1H103K	CHIP C	0.010UF	K		
C542			CC73FSL1H151J	CHIP C	150PF	J		
C601			CK73FB1H223K	CHIP C	0.022UF	K		
C602			CK73FB1H103K	CHIP C	0.010UF	K	K2P2	
C603			CK73FB1H103K	CHIP C	0.010UF	K		
C605,606			CK73FB1H103K	CHIP C	0.010UF	K		

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C607			CE04KW1C470M	ELECTRO	47UF	16WV		
C608			CK73EB1H103K	CHIP C	0.010UF	K	M2C2	
C608			CK73EB1H103K	CHIP C	0.010UF	K	Y1M1C1	
C610			CE04KW1C470M	ELECTRO	47UF	16WV		
C611-613			CK73FB1H473K	CHIP C	0.047UF	K		
C614			CE04KW1C100M	ELECTRO	10UF	16WV		
C615			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C616			C90-3251-05	ELECTRO	0.47UF	50WV		
C617			C90-3253-05	ELECTRO	1.0UF	50WV		
C618			CC73FCH1H470J	CHIP C	47PF	J		
C619			C90-3219-05	ELECTRO	33UF	10WV		
C620			CK73FB1H473K	CHIP C	0.047UF	K		
C621			C90-3241-05	ELECTRO	3.3UF	35WV		
C622			CK73FB1H473K	CHIP C	0.047UF	K		
C623			CE04KW1C100M	ELECTRO	10UF	16WV		
C624			CC73FCH1H391J	CHIP C	390PF	J		
C625			CC73FCH1H151J	CHIP C	150PF	J	KP1	
C625			CC73FCH1H151J	CHIP C	150PF	J	K2P2	
C625			CC73FCH1H271J	CHIP C	270PF	J	M2C2	
C625			CC73FCH1H271J	CHIP C	270PF	J	Y1M1C1	
C626			CK73FB1H223K	CHIP C	0.022UF	K		
C627			CE04HW1E100M	NP-ELEC	10UF	25WV		
C628,629			C90-3240-05	ELECTRO	2.2UF	35WV		
C630,631			CK73FB1H183K	CHIP C	0.018UF	K	M2C2	
C630,631			CK73FB1H183K	CHIP C	0.018UF	K	Y1M1C1	
C630,631			CK73FB1H333K	CHIP C	0.033UF	K	KP1	
C630,631			CK73FB1H333K	CHIP C	0.033UF	K	K2P2	
C632			CE04KW1C100M	ELECTRO	10UF	16WV		
C633,634			CK73FB1H123K	CHIP C	0.012UF	K	M2C2	
C633,634			CK73FB1H123K	CHIP C	0.012UF	K	Y1M1C1	
C636			CK73FB1H103K	CHIP C	0.010UF	K		
C637,638			C90-3217-05	ELECTRO	10UF	10WV		
C639			CC73FCH1H060D	CHIP C	6.0PF	D		
C640			CC73FCH1H020C	CHIP C	2.0PF	C		
C641			CC73FCH1H220J	CHIP C	22PF	J		
C642			CC73FCH1H270J	CHIP C	27PF	J		
C643			CC73FCH1H220J	CHIP C	22PF	J		
C644			CC73FSL1H471J	CHIP C	470PF	J		
C645			CC73FCH1H220J	CHIP C	22PF	J		
C646			CE04KW1C100M	ELECTRO	10UF	16WV		
C647			CK73FB1H102K	CHIP C	1000PF	K		
C648			CE04KW1C470M	ELECTRO	47UF	16WV		
C649			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C650			CC73FSL1H101J	CHIP C	100PF	J		
C651			CC73FCH1H471J	CHIP C	470PF	J		
C652			CC73FSL1H101J	CHIP C	100PF	J		
C670,671			CK73FB1H822K	CHIP C	8200PF	K	KP1	
C670,671			CK73FB1H822K	CHIP C	8200PF	K	K2P2	
C672			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C673			CE04KW1C470M	ELECTRO	47UF	16WV		
C675			CC73FCH1H040C	CHIP C	4.0PF	C		
C676			CC73FCH1H470J	CHIP C	47PF	J		
C678			CK73FB1H223K	CHIP C	0.022UF	K		
C679,680			CK73FB1H332K	CHIP C	3300PF	K	M2C12	
C679,680			CK73FB1H332K	CHIP C	3300PF	K	Y1M1C1	

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C679,680			CK73FB1H392K	CHIP C	3900PF	K		KP1	
C679,680			CK73FB1H392K	CHIP C	3900PF	K		K2P2	
C681			CK73FF1C105Z	CHIP C	1.0UF	Z			
C682			CK73FB1H103K	CHIP C	0.010UF	K		KP1	
C682			CK73FB1H103K	CHIP C	0.010UF	K		K2P2	
C684,685			CK73FB1H223K	CHIP C	0.022UF	K			
C686			CK73FB1H471K	CHIP C	470PF	K			
C687			CK73FB1H102K	CHIP C	1000PF	K			
C688			CC45FSL1H101J	CERAMIC	100PF	J		M2C2	
C688			CC45FSL1H101J	CERAMIC	100PF	J		Y1M1C1	
CN1			E40-9831-05	SOCKET FOR PIN ASSY					
CN2			E40-9836-05	SOCKET FOR PIN ASSY					
CN3			E40-9825-05	SOCKET FOR PIN ASSY					
CN4		✻	E40-9834-05	SOCKET FOR PIN ASSY					
CN5			E40-4609-05	PIN ASSY					
CN7			E40-9825-05	SOCKET FOR PIN ASSY					
CN10		✻	E40-9820-05	SOCKET FOR PIN ASSY					
CN11			E40-4609-05	PIN ASSY					
CN12			E40-4871-05	PIN ASSY				KP1	
CN12			E40-4871-05	PIN ASSY				K2P2	
J1	2C		E63-0139-15	PHONO JACK	CD,MD/TAPE				
J2 ,3	1C,2C		E63-0136-15	PHONO JACK	CD2/TAPE2,VIDEO				
J4	2C		E63-0139-15	PHONO JACK	VIDEO1,2				
J5	1C		E63-0133-15	PHONO JACK	SECOND ROOM			K2P2	
J6	2C		E63-1008-05	PHONO JACK	SURROUND,PREOUT				
J12	1C	✻	E11-0373-05	MINIATURE PHONE JACK(RELAY,TV)				K2P2	
J13	1C	✻	E11-0373-05	MINIATURE PHONE JACK(IR I/O)					
J14	1C		E11-0291-05	MINIATURE PHONE JACK(IR REPEAT				K2P2	
J21	2A		E11-0271-05	PHONE JACK(HEADPHONES)					
J601	1C		E70-0052-05	LOCK TERMINAL BOARD(ANT)					
W999			E29-1633-04	LEAD PLATE					
E11	2B	✻	J19-5876-04	LED HOLDER					
E23 ,24			J11-0808-05	WIRE CLAMPER					
CF601,602			L72-0531-05	CERAMIC FILTER				M2C2	
CF601,602			L72-0531-05	CERAMIC FILTER				Y1M1C1	
CF601,602			L72-0596-05	CERAMIC FILTER				KP1	
CF601,602			L72-0596-05	CERAMIC FILTER				K2P2	
CF603			L72-0607-05	CERAMIC FILTER				M2C2	
CF603			L72-0607-05	CERAMIC FILTER				Y1M1C1	
L601			L39-1366-05	COMBINATION COIL					
L602			L40-1091-17	SMALL FIXED INDUCTOR(1UH)					
L603			L30-0911-05	AM IFT					
L604			L30-0950-05	FM IFT				KP1	
L604			L30-0950-05	FM IFT				K2P2	
L605			L30-0951-05	FM IFT				KP1	
L605			L30-0951-05	FM IFT				K2P2	
L606,607			L79-1239-05	LC FILTER				KP1	
L606,607			L79-1239-05	LC FILTER				K2P2	
L609			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)					
X601			L77-2159-05	CRYSTAL RESONATOR(7.2MHZ)					
R1 ,2			RK73FB2A221J	CHIP R	220	J	1/10W		
R3 ,4			RK73FB2A224J	CHIP R	220K	J	1/10W		
R5 ,6			RK73FB2A102J	CHIP R	1.0K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R7 ,8			RK73FB2A224J	CHIP R	220K	J	1/10W		
R9 ,10			RK73FB2A221J	CHIP R	220	J	1/10W		
R11 ,12			RK73FB2A224J	CHIP R	220K	J	1/10W		
R13 ,14			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R15 ,16			RK73FB2A224J	CHIP R	220K	J	1/10W		
R18			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R19 ,20			RK73FB2A224J	CHIP R	220K	J	1/10W		
R21			RK73FB2A474J	CHIP R	470K	J	1/10W		
R24 -26			RK73FB2A474J	CHIP R	470K	J	1/10W		
R27 ,28			RK73FB2A101J	CHIP R	100	J	1/10W		
R31 -36			RK73FB2A224J	CHIP R	220K	J	1/10W		
R38 -40			RK73FB2A152J	CHIP R	1.5K	J	1/10W	K2P2	
R41 ,42			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R43 ,44			RK73FB2A224J	CHIP R	220K	J	1/10W		
R45 ,46			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R47 ,48			RK73FB2A224J	CHIP R	220K	J	1/10W		
R53 ,54			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R55 ,56			RK73FB2A224J	CHIP R	220K	J	1/10W		
R57 ,58			RK73FB2A221J	CHIP R	220	J	1/10W		
R59 ,60			RK73FB2A224J	CHIP R	220K	J	1/10W		
R61 ,62			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R63 ,64			RK73FB2A224J	CHIP R	220K	J	1/10W		
R65 ,66			RK73FB2A224J	CHIP R	220K	J	1/10W	K2P2	
R67 ,68			RK73FB2A221J	CHIP R	220	J	1/10W	K2P2	
R69 -71			RK73FB2A474J	CHIP R	470K	J	1/10W		
R75 -78			RK73FB2A104J	CHIP R	100K	J	1/10W		
R79 -81			RK73FB2A152J	CHIP R	1.5K	J	1/10W		
R83 ,84			RK73FB2A152J	CHIP R	1.5K	J	1/10W	K2P2	
R85 ,86			RK73FB2A224J	CHIP R	220K	J	1/10W	K2P2	
R87 ,88			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2	
R89 ,90			RK73FB2A221J	CHIP R	220	J	1/10W		
R91			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2	
R92 ,93			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2	
R94			RK73FB2A101J	CHIP R	100	J	1/10W		
R95			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2	
R97			RK73FB2A101J	CHIP R	100	J	1/10W		
R101,102			RK73FB2A124J	CHIP R	120K	J	1/10W		
R103,104			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R105,106			RK73FB2A113J	CHIP R	11K	J	1/10W		
R107,108			RK73FB2A224J	CHIP R	220K	J	1/10W		
R109,110			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R111,112			RK73FB2A241J	CHIP R	240	J	1/10W		
R113,114			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R115,116			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R117,118			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R121,122			RK73FB2A224J	CHIP R	220K	J	1/10W		
R123,124			RK73FB2A104J	CHIP R	100K	J	1/10W		
R125-127			RK73FB2A474J	CHIP R	470K	J	1/10W		
R128,129			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R131,132			RK73FB2A101J	CHIP R	100	J	1/10W		
R133,134			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R151,152			RK73FB2A124J	CHIP R	120K	J	1/10W		
R153,154			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R155,156			RK73FB2A113J	CHIP R	11K	J	1/10W		
R157,158			RK73FB2A224J	CHIP R	220K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R159,160			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R161,162			RK73FB2A241J	CHIP R	240	J	1/10W		
R163,164			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R165,166			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R167,168			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R171,172			RK73FB2A104J	CHIP R	100K	J	1/10W		
R173-175			RK73FB2A474J	CHIP R	470K	J	1/10W		
R177,178			RK73FB2A101J	CHIP R	100	J	1/10W		
R179,180			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R181-192			RK73FB2A124J	CHIP R	120K	J	1/10W		
R196-199			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R201,202			RK73FB2A124J	CHIP R	120K	J	1/10W		
R203			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R204			RK73FB2A202J	CHIP R	2.0K	J	1/10W		
R205			RK73FB2A113J	CHIP R	11K	J	1/10W		
R206			RK73FB2A203J	CHIP R	20K	J	1/10W		
R207,208			RK73FB2A224J	CHIP R	220K	J	1/10W		
R209,210			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R211,212			RK73FB2A241J	CHIP R	240	J	1/10W		
R213,214			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R215,216			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R217,218			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R221,222			RK73FB2A104J	CHIP R	100K	J	1/10W		
R223-225			RK73FB2A474J	CHIP R	470K	J	1/10W		
R227,228			RK73FB2A101J	CHIP R	100	J	1/10W		
R229,230			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R251,252			RK73FB2A124J	CHIP R	120K	J	1/10W	K2P2	
R253,254			RK73FB2A272J	CHIP R	2.7K	J	1/10W	K2P2	
R255,256			RK73FB2A113J	CHIP R	11K	J	1/10W	K2P2	
R257,258			RK73FB2A224J	CHIP R	220K	J	1/10W	K2P2	
R265,266			RK73FB2A104J	CHIP R	100K	J	1/10W	K2P2	
R267-269			RK73FB2A474J	CHIP R	470K	J	1/10W	K2P2	
R271,272			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2	
R273,274			RK73FB2A105J	CHIP R	1.0M	J	1/10W	K2P2	
R293,294			RK73FB2A391J	CHIP R	390	J	1/10W		
R295			RK73FB2A103J	CHIP R	10K	J	1/10W		
R301,302			RK73FB2A684J	CHIP R	680K	J	1/10W		
R303,304			RK73FB2A163J	CHIP R	16K	J	1/10W		
R305,306			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R307,308			RK73FB2A821J	CHIP R	820	J	1/10W		
R309,310			RK73FB2A223J	CHIP R	22K	J	1/10W		
R311,312			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R313,314			RK73FB2A394J	CHIP R	390K	J	1/10W		
R315,316			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R317,318			RK73FB2A184J	CHIP R	180K	J	1/10W		
R319,320			RK73FB2A433J	CHIP R	43K	J	1/10W		
R321,322			RK73FB2A124J	CHIP R	120K	J	1/10W		
R323,324			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R325,326			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R341			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R342			RK73FB2A103J	CHIP R	10K	J	1/10W		
R343-348			RK73FB2A474J	CHIP R	470K	J	1/10W		
R349			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R350			RK73FB2A683J	CHIP R	68K	J	1/10W		
R351			RK73FB2A122J	CHIP R	1.2K	J	1/10W	K2P2	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R352			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2	
R353			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R354			RK73FB2A683J	CHIP R	68K	J	1/10W		
R355			RK73FB2A152J	CHIP R	1.5K	J	1/10W		
R356			RK73FB2A103J	CHIP R	10K	J	1/10W		
R359			RK73FB2A103J	CHIP R	10K	J	1/10W		
R371,372			RK73FB2A104J	CHIP R	100K	J	1/10W		
R375,376			RK73FB2A101J	CHIP R	100	J	1/10W		
R377-380			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R381,382			RK73FB2A104J	CHIP R	100K	J	1/10W		
R385,386			RK73FB2A101J	CHIP R	100	J	1/10W		
R387-390			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R401-408			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R409			RK73FB2A101J	CHIP R	100	J	1/10W		
R410			RK73FB2A103J	CHIP R	10K	J	1/10W		
R412			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R501,502			RK73FB2A333J	CHIP R	33K	J	1/10W		
R503,504			RK73FB2A183J	CHIP R	18K	J	1/10W		
R505,506			RK73FB2A333J	CHIP R	33K	J	1/10W		
R507-512			RK73FB2A103J	CHIP R	10K	J	1/10W		
R531,532			RK73FB2A104J	CHIP R	100K	J	1/10W		
R533-536			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R537,538			RK73FB2A101J	CHIP R	100	J	1/10W		
R541,542			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R543,544			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R555,556			RK73FB2A100J	CHIP R	10	J	1/10W		
R601			RK73FB2A101J	CHIP R	100	J	1/10W		
R603			RK73FB2A332J	CHIP R	3.3K	J	1/10W	K2P2	
R604			RK73FB2A681J	CHIP R	680	J	1/10W		
R605			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R606			RK73FB2A221J	CHIP R	220	J	1/10W		
R607			RK73FB2A821J	CHIP R	820	J	1/10W		
R608			RK73FB2A330J	CHIP R	33	J	1/10W		
R609			RK73FB2A331J	CHIP R	330	J	1/10W		
R610			RK73FB2A681J	CHIP R	680	J	1/10W		
R611			RK73FB2A330J	CHIP R	33	J	1/10W		
R612			RK73FB2A101J	CHIP R	100	J	1/10W		
R614			RK73FB2A101J	CHIP R	100	J	1/10W	KP1	
R614			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2	
R614			RK73FB2A271J	CHIP R	270	J	1/10W	M2C2	
R614			RK73FB2A271J	CHIP R	270	J	1/10W	Y1M1C1	
R615			RK73FB2A333J	CHIP R	33K	J	1/10W	KP1	
R615			RK73FB2A333J	CHIP R	33K	J	1/10W	K2P2	
R616			RK73FB2A220J	CHIP R	22	J	1/10W		
R617			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R618			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R619			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R620			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R623			RK73FB2A113J	CHIP R	11K	J	1/10W	KP1	
R623			RK73FB2A113J	CHIP R	11K	J	1/10W	K2P2	
R623			RK73FB2A332J	CHIP R	3.3K	J	1/10W	M2C2	
R623			RK73FB2A332J	CHIP R	3.3K	J	1/10W	Y1M1C1	
R625			RK73FB2A153J	CHIP R	15K	J	1/10W	M2C2	
R625			RK73FB2A153J	CHIP R	15K	J	1/10W	Y1M1C1	
R625			RK73FB2A183J	CHIP R	18K	J	1/10W	KP1	

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R625			RK73FB2A183J	CHIP R	18K	J	1/10W	K2P2	
R627,628			RK73FB2A472J	CHIP R	4.7K	J	1/10W	KP1	
R627,628			RK73FB2A472J	CHIP R	4.7K	J	1/10W	K2P2	
R627,628			RK73FB2A822J	CHIP R	8.2K	J	1/10W	M2C2	
R627,628			RK73FB2A822J	CHIP R	8.2K	J	1/10W	Y1M1C1	
R630			RK73FB2A561J	CHIP R	560	J	1/10W	M2C2	
R630			RK73FB2A561J	CHIP R	560	J	1/10W	Y1M1C1	
R631			RK73FB2A473J	CHIP R	47K	J	1/10W	M2C2	
R631			RK73FB2A473J	CHIP R	47K	J	1/10W	Y1M1C1	
R633,634			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R635,636			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2	
R637			RK73FB2A392J	CHIP R	3.9K	J	1/10W	K2P2	
R638			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2	
R639			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2	
R642			RK73FB2A103J	CHIP R	10K	J	1/10W		
R643			RK73FB2A221J	CHIP R	220	J	1/10W		
⚠ R644			RD14NB2E271J	RD	270	J	1/4W		
R645			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R646			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R647			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R648			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R649			RK73FB2A103J	CHIP R	10K	J	1/10W		
⚠ R650			RD14NB2E471J	RD	470	J	1/4W		
R651			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R652			RK73FB2A101J	CHIP R	100	J	1/10W		
R653			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R654			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R655			RK73FB2A103J	CHIP R	10K	J	1/10W		
R656,657			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R658			RK73FB2A123J	CHIP R	12K	J	1/10W		
R659			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R672,673			RK73FB2A392J	CHIP R	3.9K	J	1/10W	KP1	
R672,673			RK73FB2A392J	CHIP R	3.9K	J	1/10W	K2P2	
R672,673			RK73FB2A822J	CHIP R	8.2K	J	1/10W	M2C2	
R672,673			RK73FB2A822J	CHIP R	8.2K	J	1/10W	Y1M1C1	
R674			RK73FB2A473J	CHIP R	47K	J	1/10W		
R675			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R676			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R678			RK73FB2A821J	CHIP R	820	J	1/10W		
R680			RK73FB2A104J	CHIP R	100K	J	1/10W	K2P2	
⚠ R681			RS14KB3A151J	FL-PROOF RS	150	J	1W		
R682			RK73FB2A272J	CHIP R	2.7K	J	1/10W	KP1	
R682			RK73FB2A272J	CHIP R	2.7K	J	1/10W	K2P2	
R683			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R685-687			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R688			RK73FB2A563J	CHIP R	56K	J	1/10W		
VR601			R12-3685-05	TRIMMING POT.(10K)					
W303-310			R92-0670-05	CHIP R	0 OHM				
W303-310			R92-0670-05	CHIP R	0 OHM			M2C2	
W303-319			R92-0670-05	CHIP R	0 OHM			K2P2	
W313-316			R92-0670-05	CHIP R	0 OHM				
W313-316			R92-0670-05	CHIP R	0 OHM			M2C2	
W318,319			R92-0670-05	CHIP R	0 OHM				
W318,319			R92-0670-05	CHIP R	0 OHM			M2C2	
W321			R92-0670-05	CHIP R	0 OHM				

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W323			R92-0670-05	CHIP R	0 OHM		
W325-329			R92-0670-05	CHIP R	0 OHM		
W331			R92-0670-05	CHIP R	0 OHM		
W651,652			R92-0670-05	CHIP R	0 OHM		
W654-657			R92-0670-05	CHIP R	0 OHM	M2C2	
W654-657			R92-0670-05	CHIP R	0 OHM	Y1M1C1	
W654,655			R92-0670-05	CHIP R	0 OHM	KP1	
W654,655			R92-0670-05	CHIP R	0 OHM	K2P2	
W657			R92-0670-05	CHIP R	0 OHM	KP1	
W657			R92-0670-05	CHIP R	0 OHM	K2P2	
W659,660			R92-0670-05	CHIP R	0 OHM		
W662			R92-0670-05	CHIP R	0 OHM	M2C2	
W662			R92-0670-05	CHIP R	0 OHM	Y1M1C1	
W680			R92-0679-05	CHIP R	0 OHM		
W682-685			R92-0679-05	CHIP R	0 OHM	M2C2	
W682-685			R92-0679-05	CHIP R	0 OHM	Y1M1C1	
W684,685			R92-0679-05	CHIP R	0 OHM	KP1	
W684,685			R92-0679-05	CHIP R	0 OHM	K2P2	
W687,688			R92-0679-05	CHIP R	0 OHM		
S601	1C		S62-0034-05	SLIDE SWITCH	(DE-EMPHASIS)	M2C2	
S601	1C		S62-0034-05	SLIDE SWITCH	(DE-EMPHASIS)	Y1M1C1	
S1	2A	✻	T99-0606-05	ROTARY ENCODER	(VOLUME)		
D2			DA204U	DIODE			
D2			1SS302	DIODE			
D5			DA204U	DIODE		K2P2	
D5			1SS302	DIODE		K2P2	
D6			DA204U	DIODE			
D6			1SS302	DIODE			
D13			MA111	DIODE			
D14			HZS11N(B)	ZENER DIODE			
D14			RD11ES(B)	ZENER DIODE			
D31			UDZ5.6B	ZENER DIODE		K2P2	
D32			MA111	DIODE		K2P2	
D34			UDZ5.1B	ZENER DIODE		K2P2	
D35			HZS5.1N(B2)	ZENER DIODE			
D35			RD5.1ES(B2)	ZENER DIODE			
D601			DA204K	DIODE			
D603			HZS8.2N(B2)	ZENER DIODE			
D603			RD8.2ES(B2)	ZENER DIODE			
D604			HZS5.1N(B2)	ZENER DIODE			
D604			RD5.1ES(B2)	ZENER DIODE			
D605			HZS2.7N(B2)	ZENER DIODE			
D605			RD2.7ES(B2)	ZENER DIODE			
D608			MA111	DIODE			
D609			HZS3.3N(B2)	ZENER DIODE			
D609			RD3.3ES(B2)	ZENER DIODE			
D611			MA111	DIODE		K2P2	
D612			HSS104	DIODE			
D612			1SS133	DIODE			
D613			MA111	DIODE			
D615			U1BC44	DIODE			
IC1 ,2			TC9164AF	MOS-IC			
IC3			NJM4565D	ANALOGUE IC			

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25

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
IC4			TC9163AF	MOS-IC		
IC5			NJM4565D	ANALOGUE IC	K2P	
IC21			TC9412AP	MOS-IC		
IC22			NJM4565D	ANALOGUE IC		
IC23			TC9413P	MOS-IC		
IC24			NJM4565D	ANALOGUE IC		
IC25			TC9413P	MOS-IC		
IC26			NJM4565D	ANALOGUE IC		
IC27			TC9413P	MOS-IC	K2P2	
IC28			NJM4565D	ANALOGUE IC	K2P2	
IC30,31			NJM4565D	ANALOGUE IC		
IC42			TC9163AF	MOS-IC		
IC43			NJM4565D	ANALOGUE IC		
IC44			TC9184AP	MOS-IC		
IC47-49			NJM4565L	ANALOGUE IC		
IC51-53			NJM4565D	ANALOGUE IC		
IC601			LA1837	ANALOGUE IC	KP1	
IC601			LA1837	ANALOGUE IC	K2P2	
IC601			LA1838	ANALOGUE IC	M2C2	
IC601			LA1838	ANALOGUE IC	Y1M1C1	
IC602			LC72131	MOS-IC		
Q1 -12			2SC4213(B)	TRANSISTOR		
Q13			2SC4081(R,S)	TRANSISTOR	K2P2	
Q13			2SC4116(Y,GR)	TRANSISTOR	K2P2	
Q14			DTA113ZUA	DIGITAL TRANSISTOR	K2P2	
Q14			UN5119	DIGITAL TRANSISTOR	K2P2	
Q15			DTA113ZUA	DIGITAL TRANSISTOR		
Q15			UN5119	DIGITAL TRANSISTOR		
Q16			2SC4081(R,S)	TRANSISTOR		
Q16			2SC4116(Y,GR)	TRANSISTOR		
Q17			DTA113ZUA	DIGITAL TRANSISTOR	K2P2	
Q17			UN5119	DIGITAL TRANSISTOR	K2P2	
Q18			2SC4081(R,S)	TRANSISTOR	K2P2	
Q18			2SC4116(Y,GR)	TRANSISTOR	K2P2	
Q19			DTA113ZUA	DIGITAL TRANSISTOR		
Q19			UN5119	DIGITAL TRANSISTOR		
Q20			2SC4081(R,S)	TRANSISTOR		
Q20			2SC4116(Y,GR)	TRANSISTOR		
Q21			2SA1576A(R,S)	TRANSISTOR		
Q21			2SA1586(Y,GR)	TRANSISTOR		
Q22			2SC4081(R,S)	TRANSISTOR		
Q22			2SC4116(Y,GR)	TRANSISTOR		
Q23			DTA113ZUA	DIGITAL TRANSISTOR		
Q23			UN5119	DIGITAL TRANSISTOR		
Q24			2SC4081(R,S)	TRANSISTOR		
Q24			2SC4116(Y,GR)	TRANSISTOR		
Q33 -36			2SC4213(B)	TRANSISTOR		
Q41 ,42			2SC3940A(R,S)	TRANSISTOR		
Q601			2SC4081(R,S)	TRANSISTOR		
Q601			2SC4116(Y,GR)	TRANSISTOR		
Q602			2SA1576A(R,S)	TRANSISTOR		
Q602			2SA1586(Y,GR)	TRANSISTOR		
Q603,604			2SC4081(R,S)	TRANSISTOR	M2C2	
Q603,604			2SC4081(R,S)	TRANSISTOR	Y1M1C1	
Q603,604			2SC4116(Y,GR)	TRANSISTOR	M2C2	

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26

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Q603,604			2SC4116(Y,GR)	TRANSISTOR	Y1M1C1	
Q606,607			2SC4081(R,S)	TRANSISTOR	K2P2	
Q606,607			2SC4116(Y,GR)	TRANSISTOR	K2P2	
Q610,611			2SD1757K	TRANSISTOR		
Q612			2SA1576A(R,S)	TRANSISTOR		
Q612			2SA1586(Y,GR)	TRANSISTOR		
Q614			2SA1576A(R,S)	TRANSISTOR		
Q614			2SA1586(Y,GR)	TRANSISTOR		
A601			W02-2622-05	FM FRONT-END ASSY		

POWER SUPPLY (X25-6040-10/X25-6133-01)

D63 ,64			B30-2493-05	LED(RED)				
D66			B30-2493-05	LED(RED)				
D67 ,68			B30-2430-05	LED(RED)				
D69			B30-1010-05	LED(SLP-281F-50U)				
D70			B30-2493-05	LED(RED)				
D73			B30-2493-05	LED(RED)				
C1 ,2			CC73FSL1H101J	CHIP C	100PF	J		
C3 ,4			CE04KW1H100M	ELECTRO	10UF	50WV		
C5 ,6			CQ93FMG1H332J	MYLAR	3300PF	J		
C7 ,8			CQ93FMG1H123J	MYLAR	0.012UF	J		
C9 ,10			CE04KW1A101M	ELECTRO	100UF	10WV		
C11			CK73FB1H103K	CHIP C	0.010UF	K		
C12 -14			CC73FSL1H102J	CHIP C	1000PF	J		
C15 ,16			CC73FSL1H221J	CHIP C	220PF	J		
C17 ,18			CE04KW1H100M	ELECTRO	10UF	50WV		
C19 ,20			CE04KW1E470M	ELECTRO	47UF	25WV		
C21 ,22			CC73FSL1H181J	CHIP C	180PF	J		
C23 ,24			CC73FSL1H221J	CHIP C	220PF	J		
C101-104			CC73FSL1H101J	CHIP C	100PF	J	K2P2M2	
C101-104			CC73FSL1H101J	CHIP C	100PF	J	M1C1C2	
C107,108			CC73FSL1H101J	CHIP C	100PF	J	K2P2M2	
C107,108			CC73FSL1H101J	CHIP C	100PF	J	M1C1C2	
C109,110			CC73FSL1H470J	CHIP C	47PF	J	K2P2M2	
C109,110			CC73FSL1H470J	CHIP C	47PF	J	M1C1C2	
C111-114			CC73FSL1H101J	CHIP C	100PF	J	K2P2M2	
C111-114			CC73FSL1H101J	CHIP C	100PF	J	M1C1C2	
C115			CK45FF1H223Z	CERAMIC	0.022UF	Z	K2P2M2	
C115			CK45FF1H223Z	CERAMIC	0.022UF	Z	M1C1C2	
C116			CE04KW1HR22M	ELECTRO	0.22UF	50WV	K2P2M2	
C116			CE04KW1HR22M	ELECTRO	0.22UF	50WV	M1C1C2	
C119			CK45FF1H223Z	CERAMIC	0.022UF	Z	K2P2M2	
C119			CK45FF1H223Z	CERAMIC	0.022UF	Z	M1C1C2	
C120			CE04KW1HR22M	ELECTRO	0.22UF	50WV	K2P2M2	
C120			CE04KW1HR22M	ELECTRO	0.22UF	50WV	M1C1C2	
C121			CK73FB1H223K	CHIP C	0.022UF	K	K2P2M2	
C121			CK73FB1H223K	CHIP C	0.022UF	K	M1C1C2	
C122			CE04KW1C331M	ELECTRO	330UF	16WV	K2P2M2	
C122			CE04KW1C331M	ELECTRO	330UF	16WV	M1C1C2	
C123			CK45FF1H223Z	CERAMIC	0.022UF	Z	K2P2M2	
C123			CK45FF1H223Z	CERAMIC	0.022UF	Z	M1C1C2	
C124			CE04KW1HR22M	ELECTRO	0.22UF	50WV	K2P2M2	
C124			CE04KW1HR22M	ELECTRO	0.22UF	50WV	M1C1C2	
C125			CK45FF1H223Z	CERAMIC	0.022UF	Z	K2P2M2	

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27

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C125			CK45FF1H223Z	CERAMIC	0.022UF	Z	M1C1C2	
C126,127			CE04KW1HR22M	ELECTRO	0.22UF	50WV	K2P2M2	
C126,127			CE04KW1HR22M	ELECTRO	0.22UF	50WV	M1C1C2	
C128,129			CK73FB1H223K	CHIP C	0.022UF	K	K2P2M2	
C128,129			CK73FB1H223K	CHIP C	0.022UF	K	M1C1C2	
C130			CC73FSL1H101J	CHIP C	100PF	J	K2P2M2	
C130			CC73FSL1H101J	CHIP C	100PF	J	M1C1C2	
C132			CC73FSL1H220J	CHIP C	22PF	J	K2P2M2	
C132			CC73FSL1H220J	CHIP C	22PF	J	M1C1C2	
C134			CC73FSL1H220J	CHIP C	22PF	J	K2P2M2	
C134			CC73FSL1H220J	CHIP C	22PF	J	M1C1C2	
C135			CE04HW1E100M	NP-ELEC	10UF	25WV	K2P2	
C136			CK73FB1H103K	CHIP C	0.010UF	K	K2P2	
C137,138			CC73FSL1H220J	CHIP C	22PF	J	K2P2M2	
C137,138			CC73FSL1H220J	CHIP C	22PF	J	M1C1C2	
C139			CK73FB1H103K	CHIP C	0.010UF	K	K2P2M2	
C139			CK73FB1H103K	CHIP C	0.010UF	K	M1C1C2	
C140,141			CE04KW1H100M	ELECTRO	10UF	50WV	K2P2M2	
C140,141			CE04KW1H100M	ELECTRO	10UF	50WV	M1C1C2	
C142			CK73FB1H103K	CHIP C	0.010UF	K	K2P2M2	
C142			CK73FB1H103K	CHIP C	0.010UF	K	M1C1C2	
C143			CE04KW1C331M	ELECTRO	330UF	16WV	K2P2M2	
C143			CE04KW1C331M	ELECTRO	330UF	16WV	M1C1C2	
C144			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C145			CC73FSL1H220J	CHIP C	22PF	J	K2P2	
C146			CE04KW1C331M	ELECTRO	330UF	16WV	K2P2	
C147			CC73FSL1H101J	CHIP C	100PF	J	K2P2	
C148			CK73FB1H103K	CHIP C	0.010UF	K	K2P2	
C149			CC73FSL1H101J	CHIP C	100PF	J		
C150			CC73FSL1H101J	CHIP C	100PF	J	K2P2M2	
C150			CC73FSL1H101J	CHIP C	100PF	J	M1C1C2	
C151-154			CK73FB1E104K	CHIP C	0.10UF	K	K2P2M2	
C151-154			CK73FB1E104K	CHIP C	0.10UF	K	M1C1C2	
C201,202			CC73FSL1H471J	CHIP C	470PF	J		
C203,204			CE04KW1H3R3M	ELECTRO	3.3UF	50WV	K2P2	
C205			CK73FB1H103K	CHIP C	0.010UF	K		
C206			CC73FSL1H102J	CHIP C	1000PF	J		
C207,208			CC73FSL1H821J	CHIP C	820PF	J	K2P2	
C209,210			CE04KW1E470M	ELECTRO	47UF	25WV		
C211,212			CC73FSL1H470J	CHIP C	47PF	J		
C213,214			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C217,218			CE04KW1H3R3M	ELECTRO	3.3UF	50WV	K2P2	
C227			CC73FSL1H101J	CHIP C	100PF	J		
C301,302			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C303,304			CC73FSL1H271J	CHIP C	270PF	J		
C305-308			CC73FSL1H101J	CHIP C	100PF	J		
C309,310			CE04KW1A221M	ELECTRO	220UF	10WV		
C311,312			CK73FB1H222K	CHIP C	2200PF	K		
C313-316			CC45FSL2H560J	CERAMIC	56PF	J		
C317,318			CE04KW1H470M	ELECTRO	47UF	50WV		
C319,320			CC73FSL1H330J	CHIP C	33PF	J		
C321,322			CK73FB1H103K	CHIP C	0.010UF	K		
C325,326			CC73FSL1H151J	CHIP C	150PF	J		
C351,352			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C353,354			CC73FSL1H271J	CHIP C	270PF	J		

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28

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C355-358			CC73FSL1H101J	CHIP C	100PF	J		
C359,360			CE04KW1A221M	ELECTRO	220UF	10WV		
C361,362			CK73FB1H222K	CHIP C	2200PF	K		
C363-366			CC45FSL2H560J	CERAMIC	56PF	J		
C367,368			CE04KW1H470M	ELECTRO	47UF	50WV		
C369,370			CC73FSL1H330J	CHIP C	33PF	J		
C371			CK73FB1H153K	CHIP C	0.015UF	K		
C372			CK73FB1H103K	CHIP C	0.010UF	K		
C375,376			CC73FSL1H151J	CHIP C	150PF	J		
C401			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C402			CC73FSL1H271J	CHIP C	270PF	J		
C403,404			CC73FSL1H101J	CHIP C	100PF	J		
C405			CE04KW1A221M	ELECTRO	220UF	10WV		
C406			CK73FB1H222K	CHIP C	2200PF	K		
C407,408			CC45FSL2H560J	CERAMIC	56PF	J		
C409			CE04KW1H470M	ELECTRO	47UF	50WV		
C410			CC73FSL1H330J	CHIP C	33PF	J		
C411			CK73FB1H153K	CHIP C	0.015UF	K		
C413			CC73FSL1H151J	CHIP C	150PF	J		
C452			CE04KW2A4R7M	ELECTRO	4.7UF	100WV		
C453,454			CE04KW1E470M	ELECTRO	47UF	25WV		
C455			CC73FSL1H102J	CHIP C	1000PF	J	K2P2	
C456,457			CE04KW2A4R7M	ELECTRO	4.7UF	100WV		
C458			CE04KW1E470M	ELECTRO	47UF	25WV		
C460			CE04KW1E220M	ELECTRO	22UF	25WV		
C461			CC73FSL1H102J	CHIP C	1000PF	J		
C463			CE04KW1A221M	ELECTRO	220UF	10WV		
C501			CC73FSL1H101J	CHIP C	100PF	J		
C502			CE04HW1E100M	NP-ELEC	10UF	25WV		
C503			CE04KW1H100M	ELECTRO	10UF	50WV		
C504			CK73FB1H103K	CHIP C	0.010UF	K		
C505			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C506			CC73FSL1H220J	CHIP C	22PF	J		
C507			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C509			CC73FSL1H220J	CHIP C	22PF	J		
C510			CK73FB1H103K	CHIP C	0.010UF	K		
C511			CE04KW1C331M	ELECTRO	330UF	16WV		
C513			CE04KW1C331M	ELECTRO	330UF	16WV		
C514-517			CC73FSL1H101J	CHIP C	100PF	J		
C519			CC73FSL1H101J	CHIP C	100PF	J		
C520,521			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C522,523			CE04KW1H100M	ELECTRO	10UF	50WV		
C524,525			CK73FB1H103K	CHIP C	0.010UF	K		
C526			CK73FB1E104K	CHIP C	0.10UF	K	C2	
C526			CK73FB1E104K	CHIP C	0.10UF	K	K2P2M2	
C527			CC73FSL1H101J	CHIP C	100PF	J		
C528-530			CK73FB1E104K	CHIP C	0.10UF	K	C2	
C528-530			CK73FB1E104K	CHIP C	0.10UF	K	K2P2M2	
C550			CC73FSL1H391J	CHIP C	390PF	J		
C551,552			CC73FSL1H181J	CHIP C	180PF	J		
C553,554			CC73FSL1H391J	CHIP C	390PF	J		
C601,602			CC73FSL1H101J	CHIP C	100PF	J		
C603			C90-3244-05	ELECTRO	10UF	35WV		
C604			CK73FF1C105Z	CHIP C	1.0UF	Z		
C605			CK73FB1H103K	CHIP C	0.010UF	K		

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29

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C606-608			CC73FSL1H101J	CHIP C	100PF	J		
C609-615			CK73FB1H103K	CHIP C	0.010UF	K		
C616			C90-3241-05	ELECTRO	3.3UF	35WV		
C617-632			CC73FSL1H221J	CHIP C	220PF	J		
C633			CK73FB1H103K	CHIP C	0.010UF	K		
C634		✻	C90-3255-05	ELECTRO	3.3UF	50WV		
C701-703			CC73FSL1H101J	CHIP C	100PF	J		
C704			CC73FSL1H102J	CHIP C	1000PF	J	K2P2M2	
C704			CC73FSL1H102J	CHIP C	1000PF	J	M1C1C2	
C705			CK73FB1E104K	CHIP C	0.10UF	K	K2P2M2	
C705			CK73FB1E104K	CHIP C	0.10UF	K	M1C1C2	
C706,707			CC73FSL1H101J	CHIP C	100PF	J	K2P2M2	
C706,707			CC73FSL1H101J	CHIP C	100PF	J	M1C1C2	
C801,802			CK73FB1H103K	CHIP C	0.010UF	K		
C803,804			CE04KW1V102M	ELECTRO	1000UF	35WV		
C805,806			CC73FSL1H102J	CHIP C	1000PF	J		
C807,808			CK73FB1H103K	CHIP C	0.010UF	K		
C809,810			CE04KW1E470M	ELECTRO	47UF	25WV		
C811			CE04KW1V100M	ELECTRO	10UF	35WV		
C812,813			CK73FB1H103K	CHIP C	0.010UF	K		
C814,815			CK73FB1H473K	CHIP C	0.047UF	K		
C816-818			CE04KW1H100M	ELECTRO	10UF	50WV		
C819,820			CK73FB1H103K	CHIP C	0.010UF	K		
C821			CE04KW1C472M	ELECTRO	4700UF	16WV		
C822			CK73FB1H103K	CHIP C	0.010UF	K		
C823			CE04KW1V102M	ELECTRO	1000UF	35WV		
C824			CK73FB1H103K	CHIP C	0.010UF	K		
C825			CE04DW1E331M	ELECTRO	330UF	25WV		
C826			CK73FB1H103K	CHIP C	0.010UF	K		
C827			CE04KW1C470M	ELECTRO	47UF	16WV		
C828			CE04KW1C101M	ELECTRO	100UF	16WV		
C829			CK73FB1H103K	CHIP C	0.010UF	K		
C831			CE04KW1C101M	ELECTRO	100UF	16WV		
C901			CK73FB1H103K	CHIP C	0.010UF	K	C2	
C901			CK73FB1H103K	CHIP C	0.010UF	K	K2P2M2	
C903			CC73FSL1H102J	CHIP C	1000PF	J	C2	
C903			CC73FSL1H102J	CHIP C	1000PF	J	K2P2M2	
C904			CK73FB1H103K	CHIP C	0.010UF	K	C2	
C904			CK73FB1H103K	CHIP C	0.010UF	K	K2P2M2	
C905			CE04KW1E470M	ELECTRO	47UF	25WV	C2	
C905			CE04KW1E470M	ELECTRO	47UF	25WV	K2P2M2	
C906			CK73FB1H182K	CHIP C	1800PF	K	C2	
C906			CK73FB1H182K	CHIP C	1800PF	K	K2P2M2	
C907			CK73FF1C105Z	CHIP C	1.0UF	Z	C2	
C907			CK73FF1C105Z	CHIP C	1.0UF	Z	K2P2M2	
C908			CK73FB1E104K	CHIP C	0.10UF	K	C2	
C908			CK73FB1E104K	CHIP C	0.10UF	K	K2P2M2	
C909			CE04KW1E220M	ELECTRO	22UF	25WV	C2	
C909			CE04KW1E220M	ELECTRO	22UF	25WV	K2P2M2	
C910-913			CC73FSL1H102J	CHIP C	1000PF	J	K2P2M2	
C910-913			CC73FSL1H102J	CHIP C	1000PF	J	M1C1C2	
CN11			E40-9829-05	SOCKET FOR PIN ASSY				
CN21			E40-9848-05	PIN ASSY				
CN22			E40-9853-05	PIN ASSY				

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30

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
CN23			E40-9842-05	PIN ASSY					
CN24		✻	E40-9851-05	PIN ASSY					
CN25			E40-9846-05	PIN ASSY					
CN26		✻	E40-9837-05	PIN ASSY					
CN27		✻	E40-9820-05	SOCKET FOR PIN ASSY					
CN28		✻	E40-9837-05	PIN ASSY					
CN29			E40-9842-05	PIN ASSY					
CN32			E40-4298-05	FLAT CABLE CONNECTOR					
CN33			E40-4938-05	FLAT CABLE CONNECTOR					
CN51			E40-4916-05	FLAT CABLE CONNECTOR					
J1	2C		E63-0200-05	PHONO JACK PHONO					
J2	2B	✻	E63-1030-05	PHONO JACK AUX					
J3	2B		E56-0012-05	CYLINDRICAL RECEPTACLE,VIDEO				K2P2M2	
J3	2B		E56-0012-05	CYLINDRICAL RECEPTACLE,VIDEO				M1C1C2	
J4 ,5	1C		E56-0011-05	CYLINDRICAL RECEPTACLE,VIDEO				K2P2M2	
J4 ,5	1C		E56-0011-05	CYLINDRICAL RECEPTACLE,VIDEO				M1C1C2	
J7			E63-1005-05	PHONO JACK SECOND ROOM(B)				K2P2	
J9	1C		E63-0162-05	PHONO JACK VIDEO3,4					
J11	1C		E63-0162-05	PHONO JACK VIDEO1,2					
⚠ F1			F05-1222-05	FUSE (SEMKO)	(250V T1.25A L)			M2C2	
⚠ F1			F05-1222-05	FUSE (SEMKO)	(250V T1.25A L)			Y1M1C1	
⚠ F1			F50-0067-05	FUSE(5X20)				KP1	
⚠ F1			F50-0067-05	FUSE(5X20)				K2P2	
⚠ F2 ,3			F05-1623-05	FUSE (SEMKO)	(250V T1.6AL)			M2C2	
⚠ F2 ,3			F05-1623-05	FUSE (SEMKO)	(250V T1.6AL)			Y1M1C1	
⚠ F2 ,3			F50-0068-05	FUSE(5X20)				KP1	
⚠ F2 ,3			F50-0068-05	FUSE(5X20)				K2P2	
⚠ F4			F05-1222-05	FUSE (SEMKO)	(250V T1.25A L)			M2C2	
⚠ F4			F05-1222-05	FUSE (SEMKO)	(250V T1.25A L)			Y1M1C1	
⚠ F4			F50-0067-05	FUSE(5X20)				KP1	
⚠ F4			F50-0067-05	FUSE(5X20)				K2P2	
CN81-88			J13-0075-05	FUSE CLIP					
E1			J19-5789-04	HOLDER					
L1 ,2		✻	L92-0079-05	CHIP FERRITE					
X1			L78-0284-05	RESONATOR	(5MHZ)				
R1 ,2			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R3 ,4			RK73FB2A101J	CHIP R	100	J	1/10W		
R5 ,6			RK73FB2A623J	CHIP R	62K	J	1/10W		
R7 ,8			RK73FB2A361J	CHIP R	360	J	1/10W		
R9 ,10			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R15 ,16			RK73FB2A473J	CHIP R	47K	J	1/10W		
R17 ,18			RD14NB2E100J	RD	10	J	1/4W		
R19 ,20			RK73FB2A224J	CHIP R	220K	J	1/10W		
R101-103			RK73FB2A750J	CHIP R	75	J	1/10W	K2P2M2	
R101-103			RK73FB2A750J	CHIP R	75	J	1/10W	M1C1C2	
R104			RK73FB2A1R0J	CHIP R	1	J	1/10W	K2P2M2	
R104			RK73FB2A1R0J	CHIP R	1	J	1/10W	M1C1C2	
R105			RK73FB2A750J	CHIP R	75	J	1/10W	K2P2M2	
R105			RK73FB2A750J	CHIP R	75	J	1/10W	M1C1C2	
R109			RK73FB2A750J	CHIP R	75	J	1/10W	K2P2M2	
R109			RK73FB2A750J	CHIP R	75	J	1/10W	M1C1C2	
R110			RK73FB2A1R0J	CHIP R	1	J	1/10W	K2P2M2	
R110			RK73FB2A1R0J	CHIP R	1	J	1/10W	M1C1C2	

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(37)

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R111			RK73FB2A750J	CHIP R	75	J	1/10W	K2P2M2	
R111			RK73FB2A750J	CHIP R	75	J	1/10W	M1C1C2	
R112			RK73FB2A1R0J	CHIP R	1	J	1/10W	K2P2M2	
R112			RK73FB2A1R0J	CHIP R	1	J	1/10W	M1C1C2	
R113-115			RK73FB2A750J	CHIP R	75	J	1/10W	K2P2M2	
R113-115			RK73FB2A750J	CHIP R	75	J	1/10W	M1C1C2	
R116			RK73FB2A1R0J	CHIP R	1	J	1/10W	K2P2M2	
R116			RK73FB2A1R0J	CHIP R	1	J	1/10W	M1C1C2	
R117			RK73FB2A750J	CHIP R	75	J	1/10W	K2P2M2	
R117			RK73FB2A750J	CHIP R	75	J	1/10W	M1C1C2	
R118			RK73FB2A1R0J	CHIP R	1	J	1/10W	K2P2M2	
R118			RK73FB2A1R0J	CHIP R	1	J	1/10W	M1C1C2	
R119			RK73FB2A750J	CHIP R	75	J	1/10W	K2P2M2	
R119			RK73FB2A750J	CHIP R	75	J	1/10W	M1C1C2	
R120			RK73FB2A1R0J	CHIP R	1	J	1/10W	K2P2M2	
R120			RK73FB2A1R0J	CHIP R	1	J	1/10W	M1C1C2	
R121			RK73FB2A750J	CHIP R	75	J	1/10W	K2P2M2	
R121			RK73FB2A750J	CHIP R	75	J	1/10W	M1C1C2	
R122			RK73FB2A1R0J	CHIP R	1	J	1/10W	K2P2M2	
R122			RK73FB2A1R0J	CHIP R	1	J	1/10W	M1C1C2	
R123,124			RK73FB2A184J	CHIP R	180K	J	1/10W	K2P2M2	
R123,124			RK73FB2A184J	CHIP R	180K	J	1/10W	M1C1C2	
R125			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2M2	
R125			RK73FB2A101J	CHIP R	100	J	1/10W	M1C1C2	
R126			RK73FB2A203J	CHIP R	20K	J	1/10W	K2P2M2	
R126			RK73FB2A203J	CHIP R	20K	J	1/10W	M1C1C2	
R128			RK73FB2A203J	CHIP R	20K	J	1/10W	K2P2M2	
R128			RK73FB2A203J	CHIP R	20K	J	1/10W	M1C1C2	
R129			RK73FB2A184J	CHIP R	180K	J	1/10W	K2P2M2	
R129			RK73FB2A184J	CHIP R	180K	J	1/10W	M1C1C2	
R130			RK73FB2A224J	CHIP R	220K	J	1/10W	K2P2	
R131,132			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2M2	
R131,132			RK73FB2A103J	CHIP R	10K	J	1/10W	M1C1C2	
R133			RK73FB2A184J	CHIP R	180K	J	1/10W	K2P2M2	
R133			RK73FB2A184J	CHIP R	180K	J	1/10W	M1C1C2	
R135,136			RK73FB2A221J	CHIP R	220	J	1/10W	K2P2M2	
R135,136			RK73FB2A221J	CHIP R	220	J	1/10W	M1C1C2	
R138,139			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2M2	
R138,139			RK73FB2A103J	CHIP R	10K	J	1/10W	M1C1C2	
R142,143			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2M2	
R142,143			RK73FB2A103J	CHIP R	10K	J	1/10W	M1C1C2	
R148			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2M2	
R148			RK73FB2A101J	CHIP R	100	J	1/10W	M1C1C2	
R149			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2M2	
R149			RK73FB2A103J	CHIP R	10K	J	1/10W	M1C1C2	
R150,151			RK73FB2A221J	CHIP R	220	J	1/10W	K2P2M2	
R150,151			RK73FB2A221J	CHIP R	220	J	1/10W	M1C1C2	
R156			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2M2	
R156			RK73FB2A101J	CHIP R	100	J	1/10W	M1C1C2	
R157			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2M2	
R157			RK73FB2A103J	CHIP R	10K	J	1/10W	M1C1C2	
R158			RK73FB2A221J	CHIP R	220	J	1/10W	K2P2M2	
R158			RK73FB2A221J	CHIP R	220	J	1/10W	M1C1C2	
R159			RK73FB2A361J	CHIP R	360	J	1/10W	K2P2M2	
R159			RK73FB2A361J	CHIP R	360	J	1/10W	M1C1C2	

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(32)

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R160-163			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2	
R165			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2	
R172			RK73FB2A750J	CHIP R	75	J	1/10W		
R173			RK73FB2A104J	CHIP R	100K	J	1/10W	K2P2	
R174			RK73FB2A750J	CHIP R	75	J	1/10W	K2P2	
R181			RK73FB2A561J	CHIP R	560	J	1/10W	K2P2	
R182			RK73FB2A103J	CHIP R	10K	J	1/10W		
R183			RK73FB2A361J	CHIP R	360	J	1/10W	K2P2M2	
R183			RK73FB2A361J	CHIP R	360	J	1/10W	M1C1C2	
R184			RK73FB2A221J	CHIP R	220	J	1/10W	K2P2M2	
R184			RK73FB2A221J	CHIP R	220	J	1/10W	M1C1C2	
R192			RK73FB2A561J	CHIP R	560	J	1/10W		
R201,202			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R203,204			RK73FB2A104J	CHIP R	100K	J	1/10W	K2P2	
R205,206			RK73FB2A474J	CHIP R	470K	J	1/10W		
R207-210			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2	
R211,212			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R213,214			RK73FB2A162J	CHIP R	1.6K	J	1/10W		
R215,216			RK73FB2A432J	CHIP R	4.3K	J	1/10W		
R217-220			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2	
R221,222			RK73FB2A222J	CHIP R	2.2K	J	1/10W	K2P2	
R223			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2	
R225,226			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R227			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2	
R301,302			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R303,304			RK73FB2A104J	CHIP R	100K	J	1/10W		
R305,306			RK73FB2A163J	CHIP R	16K	J	1/10W		
R307-310			RK73FB2A751J	CHIP R	750	J	1/10W		
R311,312			RK73FB2A202J	CHIP R	2.0K	J	1/10W		
R313,314			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R315-318			RK73FB2A103J	CHIP R	10K	J	1/10W		
R319-322			RD14NB2E271J	RD	270	J	1/4W		
R323,324			RD14NB2E181J	RD	180	J	1/4W		
R327,328			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R329,330			RK73FB2A621J	CHIP R	620	J	1/10W		
R351,352			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R353,354			RK73FB2A104J	CHIP R	100K	J	1/10W		
R355,356			RK73FB2A163J	CHIP R	16K	J	1/10W		
R357-360			RK73FB2A751J	CHIP R	750	J	1/10W		
R361,362			RK73FB2A202J	CHIP R	2.0K	J	1/10W		
R363,364			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R365-368			RK73FB2A103J	CHIP R	10K	J	1/10W		
R369-372			RD14NB2E271J	RD	270	J	1/4W		
R373,374			RD14NB2E181J	RD	180	J	1/4W		
R377,378			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R379,380			RK73FB2A621J	CHIP R	620	J	1/10W		
R401			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R402			RK73FB2A104J	CHIP R	100K	J	1/10W		
R403			RK73FB2A163J	CHIP R	16K	J	1/10W		
R404,405			RK73FB2A751J	CHIP R	750	J	1/10W		
R406			RK73FB2A202J	CHIP R	2.0K	J	1/10W		
R407			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R408,409			RK73FB2A103J	CHIP R	10K	J	1/10W		
R410,411			RD14NB2E271J	RD	270	J	1/4W		
R412			RD14NB2E181J	RD	180	J	1/4W		

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33

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R414			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R415			RK73FB2A621J	CHIP R	620	J	1/10W		
R416			RK73FB2A332J	CHIP R	3.3K	J	1/10W	K2P2	
R417			RD14NB2E100J	RD	10	J	1/4W		
⚠ R462			RD14NB2E102J	RD	1.0K	J	1/4W	K2P2	
R467			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R468			RK73FB2A242J	CHIP R	2.4K	J	1/10W		
R471			RD14NB2E222J	RD	2.2K	J	1/4W		
R473			RD14NB2E391J	RD	390	J	1/4W		
R474,475			RK73FB2A101J	CHIP R	100	J	1/10W		
R478			RK73FB2A101J	CHIP R	100	J	1/10W		
R479			RK73FB2A103J	CHIP R	10K	J	1/10W		
R480			RD14NB2E220J	RD	22	J	1/4W		
R481			RK73FB2A103J	CHIP R	10K	J	1/10W		
R483-487			RK73FB2A104J	CHIP R	100K	J	1/10W		
R490			RK73FB2A183J	CHIP R	18K	J	1/10W	M2C2	
R490			RK73FB2A223J	CHIP R	22K	J	1/10W	KP1Y1	
R490			RK73FB2A223J	CHIP R	22K	J	1/10W	K2P2	
R490			RK73FB2A223J	CHIP R	22K	J	1/10W	M1C1	
R501			RK73FB2A103J	CHIP R	10K	J	1/10W		
R503,504			RK73FB2A101J	CHIP R	100	J	1/10W		
R509			RK73FB2A750J	CHIP R	75	J	1/10W		
R510			RK73FB2A103J	CHIP R	10K	J	1/10W		
R511			RK73FB2A223J	CHIP R	22K	J	1/10W		
R516			RK73FB2A101J	CHIP R	100	J	1/10W		
R517			RK73FB2A103J	CHIP R	10K	J	1/10W		
R518,519			RK73FB2A221J	CHIP R	220	J	1/10W		
R520-522			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R523			RK73FB2A750J	CHIP R	75	J	1/10W		
R524			RK73FB2A104J	CHIP R	100K	J	1/10W		
R525			RK73FB2A750J	CHIP R	75	J	1/10W		
R527			RK73FB2A750J	CHIP R	75	J	1/10W		
R528			RK73FB2A104J	CHIP R	100K	J	1/10W		
R529			RK73FB2A750J	CHIP R	75	J	1/10W		
R601			RK73FB2A103J	CHIP R	10K	J	1/10W		
R602,603			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R604			RD14NB2E330J	RD	33	J	1/4W		
R606,607			RK73FB2A100J	CHIP R	10	J	1/10W		
R610,611			RK73FB2A471J	CHIP R	470	J	1/10W		
R613,614			RK73FB2A471J	CHIP R	470	J	1/10W		
R615			RK73FB2A361J	CHIP R	360	J	1/10W		
R617			RK73FB2A471J	CHIP R	470	J	1/10W		
R618			RK73FB2A221J	CHIP R	220	J	1/10W		
R619			RK73FB2A104J	CHIP R	100K	J	1/10W		
R620-623			RK73FB2A221J	CHIP R	220	J	1/10W		
R627-631			RK73FB2A103J	CHIP R	10K	J	1/10W		
R632-666			RK73FB2A104J	CHIP R	100K	J	1/10W		
R701,702			RK73FB2A221J	CHIP R	220	J	1/10W		
R703			RK73FB2A472J	CHIP R	4.7K	J	1/10W	M1C1	
R705			RK73FB2A152J	CHIP R	1.5K	J	1/10W		
R706,707			RK73FB2A224J	CHIP R	220K	J	1/10W		
R708			RK73FB2A750J	CHIP R	75	J	1/10W		
R709,710			RK73FB2A750J	CHIP R	75	J	1/10W	K2P2M2	
R709,710			RK73FB2A750J	CHIP R	75	J	1/10W	M1C1C2	
R711			RK73FB2A184J	CHIP R	180K	J	1/10W	K2P2M2	

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34

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R711			RK73FB2A184J	CHIP R	180K	J	1/10W	M1C1C2	
R801,802			RD14NB2E332J	RD	3.3K	J	1/4W		
R803,804			RD14NB2E101J	RD	100	J	1/4W		
⚠ R805			RD14NB2E1R8J	RD	1.8	J	1/4W		
⚠ R806			RD14NB2E2R7J	RD	2.7	J	1/4W		
R808			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R809			RK73FB2A512J	CHIP R	5.1K	J	1/10W		
R810			RK73FB2A153J	CHIP R	15K	J	1/10W		
R811			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R812			RK73FB2A103J	CHIP R	10K	J	1/10W		
R821			RD14NB2E272J	RD	2.7K	J	1/4W		
R822			RK73FB2A100J	CHIP R	10	J	1/10W		
R823			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R824			RK73FB2A100J	CHIP R	10	J	1/10W		
R825			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R828			RD14NB2E332J	RD	3.3K	J	1/4W		
R901			RK73FB2A223J	CHIP R	22K	J	1/10W	C2	
R901			RK73FB2A223J	CHIP R	22K	J	1/10W	K2P2M2	
R902,903			RK73FB2A103J	CHIP R	10K	J	1/10W	C2	
R902,903			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2M2	
R904			RK73FB2A153J	CHIP R	15K	J	1/10W	C2	
R904			RK73FB2A153J	CHIP R	15K	J	1/10W	K2P2M2	
R905			RK73FB2A103J	CHIP R	10K	J	1/10W	C2	
R905			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2M2	
R906			RK73FB2A222J	CHIP R	2.2K	J	1/10W	C2	
R906			RK73FB2A222J	CHIP R	2.2K	J	1/10W	K2P2M2	
R912			RK73FB2A102J	CHIP R	1.0K	J	1/10W	C2	
R912			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2M2	
R913-916			RK73FB2A472J	CHIP R	4.7K	J	1/10W	K2P2M2	
R913-916			RK73FB2A472J	CHIP R	4.7K	J	1/10W	M1C1C2	
R917-922			RK73FB2A102J	CHIP R	1.0K	J	1/10W	C2	
R917-922			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2M2	
R923			RK73FB2A562J	CHIP R	5.6K	J	1/10W	C2	
R923			RK73FB2A562J	CHIP R	5.6K	J	1/10W	K2P2M2	
R924			RK73FB2A103J	CHIP R	10K	J	1/10W	C2	
R924			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2M2	
R925			RK73FB2A104J	CHIP R	100K	J	1/10W	C2	
R925			RK73FB2A104J	CHIP R	100K	J	1/10W	K2P2M2	
R926			RK73FB2A102J	CHIP R	1.0K	J	1/10W	C2	
R926			RK73FB2A102J	CHIP R	1.0K	J	1/10W	K2P2M2	
R927			RK73FB2A474J	CHIP R	470K	J	1/10W	C2	
R927			RK73FB2A474J	CHIP R	470K	J	1/10W	K2P2M2	
R928			RK73FB2A103J	CHIP R	10K	J	1/10W	C2	
R928			RK73FB2A103J	CHIP R	10K	J	1/10W	K2P2M2	
R929			RK73FB2A101J	CHIP R	100	J	1/10W	C2	
R929			RK73FB2A101J	CHIP R	100	J	1/10W	K2P2M2	
R998,999			RD14NB2E103J	RD	10K	J	1/4W		
K1			S76-0028-05	MAGNETIC RELAY				K2P2	
S2 -7			S70-0031-05	TACT SWITCH					
D1			MA111	DIODE					
D2			U1BC44	DIODE					
D31 -38			HSS104	DIODE					
D31 -38			1SS133	DIODE					
D39			DA204K	DIODE					

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PARTS LIST

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35

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D41 ,42			HSS104	DIODE		
D41 ,42			1SS133	DIODE		
D43			HZS5.1S(B2)	ZENER DIODE		
D43			RD5.1JS(B2)	ZENER DIODE		
D44 ,45			MA111	DIODE		
D48			HZS16N(B2)	ZENER DIODE	M2C2	
D48			HZS18N(B)	ZENER DIODE	KP1Y1	
D48			HZS18N(B)	ZENER DIODE	K2P2	
D48			HZS18N(B)	ZENER DIODE	M1C1	
D48			RD16ES(B2)	ZENER DIODE	M2C2	
D48			RD18ES(B)	ZENER DIODE	KP1Y1	
D48			RD18ES(B)	ZENER DIODE	K2P2	
D48			RD18ES(B)	ZENER DIODE	M1C1	
D49			HZS10N(B2)	ZENER DIODE	KP1Y1	
D49			HZS10N(B2)	ZENER DIODE	K2P2	
D49			HZS10N(B2)	ZENER DIODE	M1C1	
D49			HZS15N(B2)	ZENER DIODE	M2C2	
D49			RD10JS(B2)	ZENER DIODE	KP1Y1	
D49			RD10JS(B2)	ZENER DIODE	K2P2	
D49			RD10JS(B2)	ZENER DIODE	M1C1	
D49			RD15ES(B2)	ZENER DIODE	M2C2	
D55 ,56			DA204K	DIODE		
D57			HZS24N(B)	ZENER DIODE	K2P2	
D57			RD24ES(B)	ZENER DIODE	K2P2	
D58 -60			MA111	DIODE		
D61			HZS3.3N(B)	ZENER DIODE		
D61			RD3.3ES(B)	ZENER DIODE		
D62			HZS2.7N(B)	ZENER DIODE		
D62			RD2.7ES(B)	ZENER DIODE		
D74 ,75			MA111	DIODE		
D77			HZS5.1S(B2)	ZENER DIODE		
D77			RD5.1JS(B2)	ZENER DIODE		
D78			MA111	DIODE		
⚠ D81 ,82			1B4B41	DIODE		
D83 ,84			HZS15N(B)	ZENER DIODE		
D83 ,84			RD15ES(B)	ZENER DIODE		
D85			HZS5.1S(B2)	ZENER DIODE		
D85			RD5.1JS(B2)	ZENER DIODE		
⚠ D86			S5688B	DIODE		
D87			HZS11N(B)	ZENER DIODE		
D87			RD11JS(B)	ZENER DIODE		
⚠ D88			D3SBA20F03	DIODE		
D89			HZS11N(B)	ZENER DIODE		
D89			RD11JS(B)	ZENER DIODE		
D90 ,91			MA111	DIODE		
D92 -95			DA204K	DIODE	K2P2M2	
D92 -95			DA204K	DIODE	M1C1C2	
D96			MA111	DIODE	K2P2M2	
D96			MA111	DIODE	M1C1C2	
D901,902			MA111	DIODE	C2	
D901,902			MA111	DIODE	K2P2M2	
D998			HZS15N(B)	ZENER DIODE		
D998			RD15ES(B)	ZENER DIODE		
D999			MA111	DIODE		
ED1		✻	16-MT-62GK	INDICATOR TUBE		

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36

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
IC1			NJM4580ED	ANALOGUE IC		
IC11,12			SN761200N	ANALOGUE IC	K2P2M2	
IC11,12			SN761200N	ANALOGUE IC	M1C1C2	
IC13			TC74HC4051AP	IC(ANALOG MULTIPLEXER)	K2P2	
IC21			NJM2058D	IC(OP AMP X4)		
IC23			TC9162AF	MOS-IC		
IC51			SN761200N	ANALOGUE IC		
IC52			MC14577CF	MOS-IC		
IC53			NJU3713D	MOS-IC		
IC61			UPD780204-034	MI-COM IC		
IC81			NJM4558D	ANALOGUE IC		
⚠ IC82			TA79005S	IC(VOLTAGE REGULATOR/ -5V)		
⚠ IC82			UPC7905AHF	IC(VOLTAGE REGULATOR/ -5V)		
⚠ IC83			TA7805S	ANALOGUE IC		
⚠ IC83			UPC7805AHF	ANALOGUE IC		
⚠ IC84			SI-3082V	ANALOGUE IC		
IC90		✻	BA7645N	IC		
IC91			NJM4580L	ANALOGUE IC		
Q1 -6			2SC4213(B)	TRANSISTOR	K2P2	
Q12			2SC4081(R,S)	TRANSISTOR	K2P2M2	
Q12			2SC4081(R,S)	TRANSISTOR	M1C1C2	
Q14			2SC4081(R,S)	TRANSISTOR	K2P2M2	
Q14			2SC4081(R,S)	TRANSISTOR	M1C1C2	
Q15 ,16			2SC4213(B)	TRANSISTOR		
Q17			2SC4213(B)	TRANSISTOR	K2P2	
Q30 ,31			2SC4081(R,S)	TRANSISTOR	K2P2M2	
Q30 ,31			2SC4081(R,S)	TRANSISTOR	M1C1C2	
Q32			DTC113ZUA	DIGITAL TRANSISTOR	K2P2	
Q32			UN5219	DIGITAL TRANSISTOR	K2P2	
Q52			2SC4081(R,S)	TRANSISTOR		
Q53			DTA113ZUA	DIGITAL TRANSISTOR		
Q53			UN5119	DIGITAL TRANSISTOR		
Q54			DTC124EUA	DIGITAL TRANSISTOR		
Q54			UN5212	DIGITAL TRANSISTOR		
Q55			2SC4213(B)	TRANSISTOR		
Q81			2SC2458(Y,GR)	TRANSISTOR		
Q81			2SC3311A(Q,R)	TRANSISTOR		
Q82			2SA1048(Y,GR)	TRANSISTOR		
Q82			2SA1309A(Q,R)	TRANSISTOR		
⚠ Q83			2SB1370	TRANSISTOR		
⚠ Q84			2SD2061	TRANSISTOR		
⚠ Q85			2SB1370	TRANSISTOR		
⚠ Q86			2SD2061	TRANSISTOR		
Q301-304			2SA992(F,E)	TRANSISTOR		
Q305-308			2SC2631(R,S)	TRANSISTOR		
Q309,310			2SA1123(R,S)	TRANSISTOR		
Q311,312			2SA1586(Y,GR)	TRANSISTOR		
Q351-354			2SA992(F,E)	TRANSISTOR		
Q355-358			2SC2631(R,S)	TRANSISTOR		
Q359,360			2SA1123(R,S)	TRANSISTOR		
Q361,362			2SA1586(Y,GR)	TRANSISTOR		
Q401,402			2SA992(F,E)	TRANSISTOR		
Q403,404			2SC2631(R,S)	TRANSISTOR		
Q405			2SA1123(R,S)	TRANSISTOR		
Q406			2SA1586(Y,GR)	TRANSISTOR		

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37

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⚠	Q451			2SA1535(R,S)	TRANSISTOR		
	Q453			DTC124EUA	DIGITAL TRANSISTOR		
	Q453			UN5212	DIGITAL TRANSISTOR		
	Q454			2SA1611(M5,M6)	TRANSISTOR		
	Q456			DTC124EUA	DIGITAL TRANSISTOR		
	Q456			UN5212	DIGITAL TRANSISTOR		
⚠	Q457			2SC4177(L5,L6)	TRANSISTOR		
	Q901			2SC4081(R,S)	TRANSISTOR	C2	
	Q901			2SC4081(R,S)	TRANSISTOR	K2P2M2	
	Q902			2SA1611(M5,M6)	TRANSISTOR	C2	
	Q902			2SA1611(M5,M6)	TRANSISTOR	K2P2M2	
	Q903			2SA1611(M5,M6)	TRANSISTOR		
	Q999			2SC3244	TRANSISTOR		
	A1			W02-2571-05	OPTIC RECEIVING MODULE		

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HOW TO READ THE PARTS LIST
ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	*ABB.*	*Australia*	*Canada*	*China*	*England*	*Europe*	*Germany*	*Korea*	*Malaysia*
VR-2080	-	-	P1	-	-	-	-	-	-
VR-2090	-	-	P2	-	-	-	-	-	-
KRF-V7771D	-	-	-	C1	-	-	-	-	-
KRF-V8881D	-	-	-	C2	-	-	-	-	-

MODEL	*ABB.*	*Mexico*	*PX/AAFES*	*Russia*	*Scandinavia*	*Shanghai*	*USA*	*Other area*	
VR-2080	-	-	-	-	-	-	K	-	-
VR-2090	-	-	-	-	-	-	K2	-	-
KRF-V7771D	-	-	Y1	-	-	-	-	M1	-
KRF-V8881D	-	-	-	-	-	-	-	M2	-

SPECIFICATIONS (VR-2090)

AUDIO section

Rated output power during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 6 Ω from 20 Hz to 20 kHz with no more than 0.03 % total harmonic distortion.(FTC)

Rated output power during SURROUND operation
- **FRONT**
  (1kHz, 0.7% T.H.D. at 6 Ω) ..... 100 W + 100 W
- **CENTER**
  (1kHz, 0.7% T.H.D. at 6 Ω) ..... 100 W
- **SURROUND**
  (1kHz, 0.7% T.H.D. at 6 Ω) ..... 100 W + 100 W

Total harmonic distortion ..... 0.004% (1 kHz, 50 W, 6 Ω)
Frequency response (IHF'78)
- **CD ..... 5 Hz ~ 80 kHz, +0.5 dB, –3 dB**

Signal to noise ratio (IHF'66)
- **PHONO (MM) ..... 77 dB**
- **CD ..... 90 dB**

Input sensitivity / impedance
- **PHONO (MM) ..... 2.5 mV / 47 kΩ**
- **CD ..... 200 mV / 47 kΩ**

Output level / impedance
- **TAPE REC ..... 200 mV / 220 Ω**
- **PRE OUT (CENTER, SURROUND, SUBWOOFER) ..... 1 V / 1 kΩ**

Tone control
- **BASS ..... ±7 dB (at 100 Hz)**
- **TREBLE ..... ±7 dB (at 10 kHz)**

LOUDNESS control
- **VOLUME at -40dB level ... +7 dB(100 Hz), +4 dB(10 kHz)**

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz
Input level / impedance / wave length
- **Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30nm**
- **Coaxial ..... 0.5 Vp-p / 75 Ω**

VIDEO section

VIDEO inputs / outputs
- **VIDEO (composite) ..... 1 Vp-p / 75 Ω**
- **S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω**
  (chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6μV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
- **STEREO ..... 31.6μV (75 Ω)/ 41.2 dBf**

Total harmonic distortion (1 kHz)
- **MONO ..... 0.3 % (65 dBf input)**
- **STEREO ..... 0.6 % (65 dBf input)**

Signal to noise ratio (1 kHz, 75 kHz DEV.)
- **MONO ..... 75 dB (65 dBf input)**
- **STEREO ..... 68 dB (65 dBf input)**

Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 70 dB
Frequency response ..... 30 Hz ~ 15kHz,+0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- **10 kHz step ..... 530 kHz ~ 1,700 kHz**

Usable sensitivity (30% mod., S/N 20 dB)
..... 16 μV / (600 μV/m)
Signal to noise ratio (30 % mod. 1 mV input) ..... 50 dB

Relay and IR IN/OUT section

RELAY CONTROL terminal
- **Maximum output current ..... 20 mA**
- **Operating voltage ..... 12 V**
- **Output impedance ..... 470 Ω**

IR RECEIVER IN terminal
- **Maximum output current ..... 20 mA**
- **Operating voltage ..... 12 V**
- **Output impedance ..... 470 Ω**

IR OUT LCD REMOTE terminal
- **Maximum output current ..... 20 mA**
- **Operating voltage ..... 12 V**
- **Output impedance ..... 470 Ω**

IR REPEATER CONTROL terminals
- **Maximum output current ..... 20 mA**
- **Operating voltage ..... 12 V**
- **Output impedance ..... 470 Ω**

Shape of plug to be connected

IR RECEIVER IN, IR OUT LCD REMOTE and RELAY CONTROL	IR REPEATER OUT
Stereo mini plug Sleeve Tip Ring	Mini plug (mono) Sleeve Tip

IR IN/OUT specification

Terminal	IR RECEIVER IN	IR REPEATER OUT and IR OUT LCD REMOTE
To Tip	Signal	Signal
To Ring	Ground	———
To Sleeve	+12 V	Ground

RELAY CONTROL specification

Status	Power off	Power on	Power on and when switch to video input
To Tip	0 V	0 V	+12 V
To Ring	0 V	+12 V	+12 V
To Sleeve	Ground	Ground	Ground

GENERAL

Power consumption ..... 3.5 A
AC outlet
- **SWITCHED ..... 2 (total 90 W, 0.75 A max.)**

Dimensions ..... W : 440 mm (17-5/16")
H : 162 mm (6-3/8")
D : 391 mm (15-3/8")
Weight (Net) ..... 12 kg (26.5 lb)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Full performance may not be exhibited in extremely cold locations (below 0 deg.C).

SPECIFICATIONS (VR-2080)

AUDIO section

Rated output power during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 6 Ω from 20 Hz to 20 kHz with no more than 0.03 % total harmonic distortion.(FTC)

Rated output power during SURROUND operation
- **FRONT**
- **(1kHz, 0.7% T.H.D. at 6 Ω) ..... 100 W + 100 W**
- **CENTER**
- **(1kHz, 0.7% T.H.D. at 6 Ω) ..... 100 W**
- **SURROUND**
- **(1kHz, 0.7% T.H.D. at 6 Ω) ..... 100 W + 100 W**

Total harmonic distortion ..... 0.004% (1 kHz, 50 W, 6 Ω)
Frequency response (IHF'78)
- **CD ..... 5 Hz ~ 80 kHz, +0.5 dB, –3 dB**

Signal to noise ratio (IHF'66)
- **PHONO (MM) ..... 77 dB**
- **CD ..... 90 dB**

Input sensitivity / impedance
- **PHONO (MM) ..... 2.5 mV / 47 kΩ**
- **CD ..... 200 mV / 47 kΩ**

Output level / impedance
- **TAPE REC ..... 200 mV / 220 Ω**
- **PRE OUT (CENTER, SURROUND, SUBWOOFER) ..... 1 V / 1 kΩ**

Tone control
- **BASS ..... ±7 dB (at 100 Hz)**
- **TREBLE ..... ±7 dB (at 10 kHz)**

LOUDNESS control
- **VOLUME at -40dB level ... +7 dB(100 Hz), +4 dB(10 kHz)**

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz
Input level / impedance / wave length
- **Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30nm**
- **Coaxial ..... 0.5 Vp-p / 75 Ω**

VIDEO section

VIDEO inputs / outputs
- **VIDEO (composite) ..... 1 Vp-p / 75 Ω**
- **S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω**
- **(chrominance signal) ..... 0.286 Vp-p / 75 Ω**

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO) ..... 1.6μV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
- **STEREO ..... 31.6μV (75 Ω)/ 41.2 dBf**

Total harmonic distortion (1 kHz)
- **MONO ..... 0.3 % (65 dBf input)**
- **STEREO ..... 0.6 % (65 dBf input)**

Signal to noise ratio (1 kHz, 75 kHz DEV.)
- **MONO ..... 75 dB (65 dBf input)**
- **STEREO ..... 68 dB (65 dBf input)**

Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 70 dB
Frequency response ..... 30 Hz ~ 15kHz,+0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- **10 kHz step ..... 530 kHz ~ 1,700 kHz**

Usable sensitivity (30% mod., S/N 20 dB) ..... 16 μV / (600 μV/m)
Signal to noise ratio (30 % mod. 1 mV input) ..... 50 dB

Relay and IR IN/OUT section

IR RECEIVER IN terminal
- **Maximum output current ..... 20 mA**
- **Operating voltage ..... 12 V**
- **Output impedance ..... 470 Ω**

IR OUT LCD REMOTE terminal
- **Maximum output current ..... 20 mA**
- **Operating voltage ..... 12 V**
- **Output impedance ..... 470 Ω**

Shape of plug to be connected

IR RECEIVER IN	IR OUT LCD REMOTE
Stereo mini plug Sleeve Tip Ring	Stereo mini plug Sleeve Tip Ring

IR IN/OUT specification

Terminal	IR RECEIVER IN	IR OUT LCD REMOTE
To Tip	Signal	Signal
To Ring	Ground	———
To Sleeve	+12 V	Ground

GENERAL

Power consumption ..... 3.5 A
AC outlet
- **SWITCHED ..... 2 (total 90 W, 0.75 A max.)**

Dimensions ..... W : 440 mm (17-5/16")
H : 162 mm (6-3/8")
D : 391 mm (15-3/8")
Weight (Net) ..... 11.2 kg (24.69 lb)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Full performance may not be exhibited in extremely cold locations (below 0 deg.C).

SPECIFICATIONS (KRF-V8881D in China)

AUDIO section

Rated output power during STEREO operation
63 Hz ~ 12.5 kHz, 0.7%, 6 Ω (DIN/IEC) ... 130 W + 130 W

130 watts per channel minimum RMS, both channels driven, at 6 Ω from 20 Hz to 20 kHz with no more than 0.03 % total harmonic distortion.(FTC)

Effective output power during STEREO operation
1kHz,10% T.H.D.,at 6 Ω ..... 180 W + 180 W
Effective output power during SURROUND operation
FRONT
(1kHz, 0.7% T.H.D. at 6 Ω one channel driven) ..... 130 W + 130 W
(1kHz, 10% T.H.D. at 6 Ω one channel driven) ..... 180 W + 180 W
CENTER
(1kHz, 0.7% T.H.D. at 6 Ω one channel driven) .... 130 W
(1kHz, 10% T.H.D. at 6 Ω one channel driven) ..... 180 W
SURROUND
(1kHz, 0.7% T.H.D. at 6 Ω one channel driven) ..... 130 W + 130 W
(1kHz, 10% T.H.D. at 6 Ω one channel driven) ..... 180 W + 180 W
Total harmonic distortion ..... 0.004 % (1kHz, 65 W, 6 Ω)
Frequency response (IHF'78)
CD ..... 5 Hz ~ 80 kHz, +0.5 dB, –3 dB
Signal to noise ratio (IHF'66)
PHONO (MM) ..... 77 dB
CD ..... 92 dB
Input sensitivity / impedance
PHONO (MM) ..... 2.5 mV / 47 kΩ
CD ..... 200 mV / 47 kΩ
Output level / impedance
TAPE REC ..... 200 mV / 220 Ω
PRE OUT (CENTER, SURROUND, SUBWOOFER) ..... 1 V / 1 kΩ
Tone control
BASS ..... ±7 dB (at 100 Hz)
TREBLE ..... ±7 dB (at 10 kHz)
LOUDNESS control
VOLUME at -40dB level ... +7 dB(100 Hz), +4 dB(10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz
Input level / impedance / wave length
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30nm
Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
VIDEO (composite) ..... 1 Vp-p / 75 Ω
S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6μV (75 Ω)/ 15.2 dBf(75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
STEREO ..... 31.6μV (75 Ω)/ 41.2 dBf
Total harmonic distortion (1 kHz)
MONO ..... 0.6 % (65 dBf input)
STEREO ..... 0.7 % (65 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)
MONO ..... 75 dB (65 dBf input)
STEREO ..... 68 dB (65 dBf input)
Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 50 dB
Frequency response ..... 30 Hz ~ 15kHz,+0.5 dB, –3.0 dB

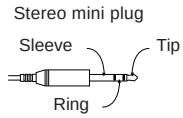
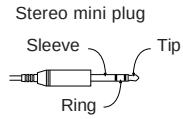
AMtuner section

Tuning frequency range
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz
Usable sensitivity (30% mod., S/N 20 dB)
..... 16 μV / (600 μV/m)
Signal to noise ratio (30 % mod. 1 mV input) ..... 50 dB

IR IN/OUT section

IR RECEIVER IN terminal
Maximum output current ..... 20 mA
Operating voltage ..... 12 V
Output impedance ..... 470 Ω
IR OUT LCD REMOTE terminal
Maximum output current ..... 20 mA
Operating voltage ..... 12 V
Output impedance ..... 470 Ω

Shape of plug to be connected

IR RECEIVER IN	IR OUT LCD REMOTE
	

IR IN/OUT specification

Terminal	IR RECEIVER IN	IR OUT LCD REMOTE
To Tip	Signal	Signal
To Ring	Ground	———
To Sleeve	+12 V	Ground

GENERAL

Power consumption ..... 380 W
AC outlet
SWITCHED ..... 2 (total 90 W max.)
Dimensions ..... W : 440 mm
H : 162 mm
D : 391 mm
Weight (Net) ..... 12 kg

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Full performance may not be exhibited in extremely cold locations (below 0 deg.C).

SPECIFICATIONS (KRF-V8881D for other countries)

AUDIO section

Rated output power during STEREO operation
63 Hz ~ 12.5 kHz, 0.7%, 6 Ω (DIN/IEC) ... 130 W + 130 W

130 watts per channel minimum RMS, both channels driven, at 6 Ω from 20 Hz to 20 kHz with no more than 0.03 % total harmonic distortion.(FTC)

Effective output power during STEREO operation
1kHz,10% T.H.D.,at 6 Ω ..... 180 W + 180 W
Effective output power during SURROUND operation
FRONT
(1kHz, 0.7% T.H.D. at 6 Ω one channel driven)
..... 130 W + 130 W
(1kHz, 10% T.H.D. at 6 Ω one channel driven)
..... 180 W + 180 W
CENTER
(1kHz, 0.7% T.H.D. at 6 Ω one channel driven) .... 130 W
(1kHz, 10% T.H.D. at 6 Ω one channel driven) ..... 180 W
SURROUND
(1kHz, 0.7% T.H.D. at 6 Ω one channel driven)
..... 130 W + 130 W
(1kHz, 10% T.H.D. at 6 Ω one channel driven)
..... 180 W + 180 W
Total harmonic distortion ..... 0.004 % (1kHz, 65 W, 6 Ω)
Frequency response (IHF'78)
CD ..... 5 Hz ~ 80 kHz, +0.5 dB, –3 dB
Signal to noise ratio (IHF'66)
PHONO (MM) ..... 77 dB
CD ..... 92 dB
Input sensitivity / impedance
PHONO (MM) ..... 2.5 mV / 47 kΩ
CD ..... 200 mV / 47 kΩ
Output level / impedance
TAPE REC ..... 200 mV / 220 Ω
PRE OUT (CENTER, SURROUND, SUBWOOFER)
..... 1 V / 1 kΩ
Tone control
BASS ..... ±7 dB (at 100 Hz)
TREBLE ..... ±7 dB (at 10 kHz)
LOUDNESS control
VOLUME at -40dB level ... +7 dB(100 Hz), +4 dB(10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz
Input level / impedance / wave length
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30nm
Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
VIDEO (composite) ..... 1 Vp-p / 75 Ω
S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6μV (75 Ω)/ 15.2 dBf(75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
STEREO ..... 31.6μV (75 Ω)/ 41.2 dBf
Total harmonic distortion (1 kHz)
MONO ..... 0.6 % (65 dBf input)
STEREO ..... 0.7 % (65 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)
MONO ..... 75 dB (65 dBf input)
STEREO ..... 68 dB (65 dBf input)
Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 50 dB
Frequency response ..... 30 Hz ~ 15kHz,+0.5 dB, –3.0 dB

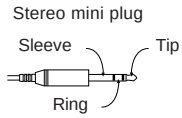
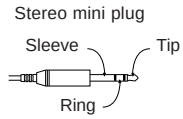
AM tuner section

Tuning frequency range
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz
Usable sensitivity (30% mod., S/N 20 dB)
..... 16 μV / (600 μV/m)
Signal to noise ratio (30 % mod. 1 mV input) ..... 50 dB

IR IN/OUT section

IR RECEIVER IN terminal
Maximum output current ..... 20 mA
Operating voltage ..... 12 V
Output impedance ..... 470 Ω
IR OUT LCD REMOTE terminal
Maximum output current ..... 20 mA
Operating voltage ..... 12 V
Output impedance ..... 470 Ω

Shape of plug to be connected

IR RECEIVER IN	IR OUT LCD REMOTE
	

IR IN/OUT specification

Terminal	IR RECEIVER IN	IR OUT LCD REMOTE
To Tip	Signal	Signal
To Ring	Ground	———
To Sleeve	+12 V	Ground

GENERAL

Power consumption ..... 380 W
AC outlet
SWITCHED ..... 2 (total 90 W max.)
Dimensions ..... W : 440 mm
H : 162 mm
D : 391 mm
Weight (Net) ..... 12 kg

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Full performance may not be exhibited in extremely cold locations (below 0 deg.C).

SPECIFICATIONS (KRF-V7771D)

AUDIO section

Rated output power during STEREO operation
63 Hz ~ 12.5 kHz, 0.7%, 6 Ω (DIN/IEC) ... 120 W + 120 W

120 watts per channel minimum RMS, both channels driven, at 6 Ω from 20 Hz to 20 kHz with no more than 0.03 % total harmonic distortion.(FTC)

Effective output power during STEREO operation
1kHz,10% T.H.D.,at 6 Ω ..... 160 W + 160 W
Effective output power during SURROUND operation
FRONT
(1kHz, 0.7% T.H.D. at 6 Ω one channel driven) ..... 120 W + 120 W
(1kHz, 10% T.H.D. at 6 Ω one channel driven) ..... 160 W + 160 W
CENTER
(1kHz, 0.7% T.H.D. at 6 Ω one channel driven) .... 120 W
(1kHz, 10% T.H.D. at 6 Ω one channel driven) ..... 160 W
SURROUND
(1kHz, 0.7% T.H.D. at 6 Ω one channel driven) ..... 120 W + 120 W
(1kHz, 10% T.H.D. at 6 Ω one channel driven) ..... 160 W + 160 W
Total harmonic distortion ..... 0.004 % (1kHz, 60 W, 6 Ω)
Frequency response (IHF'78)
CD ..... 5 Hz ~ 80 kHz, +0.5 dB, –3 dB
Signal to noise ratio (IHF'66)
PHONO (MM) ..... 77 dB
CD ..... 92 dB
Input sensitivity / impedance
PHONO (MM) ..... 2.5 mV / 47 kΩ
CD ..... 200 mV / 47 kΩ
Output level / impedance
TAPE REC ..... 200 mV / 220 Ω
PRE OUT (CENTER, SURROUND, SUBWOOFER) ..... 1 V / 1 kΩ
Tone control
BASS ..... ±7 dB (at 100 Hz)
TREBLE ..... ±7 dB (at 10 kHz)
LOUDNESS control
VOLUME at -40dB level ... +7 dB(100 Hz), +4 dB(10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz
Input level / impedance / wave length
Optical ..... -15 dBm ~ -21 dBm, 660 nm ±30nm
Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs
VIDEO (composite) ..... 1 Vp-p / 75 Ω
S VIDEO (luminance signal) ..... 1 Vp-p / 75 Ω
(chrominance signal) ..... 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6μV (75 Ω)/ 15.2 dBf(75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
STEREO ..... 31.6μV (75 Ω)/ 41.2 dBf
Total harmonic distortion (1 kHz)
MONO ..... 0.6 % (65 dBf input)
STEREO ..... 0.7 % (65 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)
MONO ..... 75 dB (65 dBf input)
STEREO ..... 68 dB (65 dBf input)
Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 50 dB
Frequency response ..... 30 Hz ~ 15kHz,+0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz
Usable sensitivity (30% mod., S/N 20 dB)
..... 16 μV / (600 μV/m)
Signal to noise ratio (30 % mod. 1 mV input) ..... 50 dB

IR IN/OUT section

IR RECEIVER IN terminal
Maximum output current ..... 20 mA
Operating voltage ..... 12 V
Output impedance ..... 470 Ω
IR OUT LCD REMOTE terminal
Maximum output current ..... 20 mA
Operating voltage ..... 12 V
Output impedance ..... 470 Ω

Shape of plug to be connected

IR RECEIVER IN	IR OUT LCD REMOTE
Stereo mini plug Sleeve Tip Ring	Stereo mini plug Sleeve Tip Ring

IR IN/OUT specification

Terminal	IR RECEIVER IN	IR OUT LCD REMOTE
To Tip	Signal	Signal
To Ring	Ground	———
To Sleeve	+12 V	Ground

GENERAL

Power consumption ..... 330 W
AC outlet
SWITCHED ..... 2 (total 90 W max.)
Dimensions ..... W : 440 mm
H : 162 mm
D : 391 mm
Weight (Net) ..... 11.2 kg

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Full performance may not be exhibited in extremely cold locations (below 0 deg.C).